13

14                       **RULE 131 DECLARATION**

15

16       I am one of the co-inventors of US Application No. 09/933,861 and am familiar

17   with its contents and the inventions described therein.

18

19       The Inventions disclosed and claimed in the application, including those recited in

20   claims 1-53, were developed by the undersigned inventors while we were employed by

21   eBoodle.com, which was eventually acquired by Bizrate.com in the Spring of 2000.

22

23       By at least as early as about November 1999, the subject matter recited in at least

24   claims 1, 6, 26 and 41 was implemented online in working software code for public or

25   private access (hereinafter the "online implementation" in the United States and

26   worldwide as a downloadable program (the "eBoodle Bar") that interfaced with remote

27   computers managed over the internet. The online implementation was provided through

28   www.eBoodle.com from which the eBoodle Bar was downloadable. The implemented

29   subject matter was found to suitably work for its intended purpose well before June 21,

30   2000. In more particularity, the implemented subject, as existing before June 21, 2000,

31   included systems, codes and methods located and performed in the United States, as

32   follows:

1

2      (i)      The eBoodle Bar was software in the nature of a browser companion agent

3      for context personal browsing that was downloaded to a consumer or "client"

4      computer system and which interacted with remote computers managed by

5      eBoodle.com.

6

7      (ii)     The remote computer system was provided by Eboodle.com and received

8      data from the client computer system having the browser companion agent.

9

10     (iii)    The browser companion agent included one or more one associated

11     service modules that assisted a user of the client computer system by providing

12     services that were contextually relevant to content on a browser on the client

13     computer system, the data received by the remote computer system being

14     determined according to the content page present on a browser of the client

15     computer system and/or the user associated with the client computer system.

16

17     (iv)     From the page data at least one set of data and/or executable code that

18     corresponded to a service module associated with the browser companion agent

19     was determined.

20     (v)      The data or code was sent to the browser companion agent for use by a

21     service modules.

22

23     (vi)     The remote computer system of eBoodle.com was configured to send and

24     did send service modules for context personal browsing to the client computer

25     system.  The service module included executable code.

26

27     (vii)    The service modules consisted of code relating to providing a user of a

28     client computer system information relating to an actual or potential ecommerce

29     transaction;

30

31     (viii)   a data component for holding data related to one or more service modules;

32

1     (ix)    a tracking component for tracking the domain of a page presented on a

2        browser and communicating page domain data to a remote computer system; and

3

4     (x)    a receiving component for receiving data from the remote computer

5        system responsive to the page domain data, a service module being installable in

6        the service component of the client computer system, the service module being

7        sent to the client computer system also being useful to a user of the client

8        computer considering an ecommerce transaction.

9

10     In corroboration of the foregoing statements, the following information is

11   presented.

12

13     Attached as Exhibit 1 are copies of web pages from the eBoodle.com site for

14   dates between November 27, 1999, and May 30, 2000, as retrieved from

15   http://web.archive.org/web/*/http://www.eboodle.com in May of 2006. The dates are

16   shown as part of the address of the archiving website from which they were retrieved and

17   are bracketed according to year (yy), month (mm), and day (dd).

18

19     Exhibit 1 shows that the eBoodle Bar was downloadable and configured to

20   interact with services provided by eBoodle.com. (Ex.1, pp.1-11.) The bar is described as

21   a shopping assistant that interacts with a user's web browser. (Ex.1, p.2.)  It also

22   describes the services that the eBoodle Bar makes available through the eBoodle.com

23   website as automatic form filling, transaction tracking, cash back programs, and referral

24   programs. (Ex. 1, p.3.)

25

26     The launch of the eBoodle bar was the subject of a number or press reports or

27   releases.

28     (i)    For example, Forbes.com published reports on the eBoodle bar on or

29        about December 2, 1999 and on or about December 17, 1999 ("Are you ready for

30        e-shopping assistants," "Raising the Bar," Exhibit 2). The December 2, 1999

31        article characterizes the bar as an emerging technology and states that the

1    "software, called the eboodle bar, has features such as automatic form-filling and
2    transaction record keeping along with comparison-shopping features."
3
4    (ii)    Exhibit 3 contains a compilation of press releases and news reports dated
5    before June 21, 2000 concerning the eBoodle Bar.  Among them, Google.com
6    issued a press release on or about December 7, 1999 announcing a partnership
7    with eBoodle.com regarding search engine technology. ("eBoodle.com and
8    Google Team to Deliver Powerful Online Shopping Assistant," Exhibit 3.)
9
10   (iii)   Inventor Anil Kamath states he was familiar with this press release at the
11   time it was issued in December 1999 and is quoted in it.  In its press release,
12   Google states that eBoodle.com "is the first company of its kind to combine a
13   product and store search feature, price comparison engine, cash-back program,
14   automatic form-filler, and transaction management into a comprehensive solution
15   that truly enhances consumers' online shopping."  This was an correct and
16   accurate statement as of on or about December 7, 1999.
17
18       I believe that each of the attached press reports and releases is accurate and
19   correctly reflects the nature of the eBoodle Bar and services that had been implemented
20   online before June 21, 2000.
21
22       Well before June 21, 2000, detailed documentation of the browser companion
23   agent and server system, as implemented online in software on or before June 21, 2000
24   had been prepared.  Attached as Exhibit 4 is an overview of the "eBoodle Architecture."
25   This document was prepared by one or more co-inventors.  Based on my personal
26   knowledge or on my information and belief: this document existed at least as early as
27   about May 1, 2000; it was sent to patent attorney, Bradley Ganz on May 1, 2000, as
28   evidenced by the cover email; and it describes the software and online system
29   implemented by eBoodle.com.
30
31       The claim features can be found throughout the document, for example:

1    (i)      an agent [browser companion agent] that monitors the pages seen by a

2    user on a browser window (Ex.4, p.1, para.2);

3

4    (ii)     the agent is associated with one or more service modules that assist a user

5    by providing services that are contextually relevant to content on a browser (Ex.4,

6    diagram of architecture, p.1);

7

8    (iii)    the agent sending information about the browsed page to a receiving

9    server provided by eBoodle.com [the received data being determined according to

10   the this content page] (Ex.4, p.1, para.2);

11

12   (iv)     the server uses the page information to determine context and to return to

13   the agent pages, scripts, or data that the agent then applies to enhance the

14   browsing experience [determining from the page data at least one set of data

15   and/or executable code that corresponds to a service module associated with the

16   browser companion agent; and sending the data or code to the browser companion

17   agent] (Ex.4, p.1, para.2);

18

19   (v)      An example of using the data in a form filling module is given  [for use by

20   a service module] (Ex.4., p.1, para.2);

21

22   (vi)     Sending a service module for context personalized browsing to a second

23   computer with a browser companion agent.  Under heading 2.5 "Agent Service

24   Providers," it states that "each service provider [service module] is a COM object

25   that is downloaded from the server and plugged in to the agent...." (Ex.4, p.3);

26

27   (vii)    Service modules listed under heading 2.5 include transaction tracking and

28   form filling, which relate to ecommerce transactions, as well as data collection.

29   "New services can be added incrementally or existing services can be enhanced to

30   offer additional functionality" (Ex.4, p.3.).

31

1    In supplementation of the foregoing, attached as Exhibit 5 is more detailed

2    documentation of the software and online system, as generally implemented by

3    eBoodle.com as of about May 15, 2000, with many of the claimed features plainly seen

4    and described throughout.  This document reflects a planned transition of the

5    implemented eBoodle.com system to new owner Bizrate.com.  The date of the document

6    can be found in the footer of the document.

7        The claim features can be found throughout the document, for example:

8        (i)    A tracker that "tracks the browser window to determine the location (url)

9        of the user" [browser companion agent] (E.g., Ex.5, p.4; pp.13-17);

10

11       (ii)    the agent is associated with one or more service modules that assist a user

12       by providing services that are contextually relevant to content on a browser (Ex.5,

13       p.2; pp.14-25);

14

15       (iii)   The received data being determined according to the content page (E.g.,

16       Ex.5, pp.13-18);

17

18       (iv)   Determining from the page data at least one set of data and/or executable

19       code that corresponds to a service module associated with the browser companion

20       agent; and sending the data or code to the browser companion agent (E.g., Ex.5,

21       pp.5-11; pp.13-18);

22

23       (v)    For use by a service module (Ex.5, p.2);

24

25

26       (vi)   Service modules listed under Heading 2.5 include transaction tracking and

27       form filling, which relate to ecommerce transactions, as well as data collection.

28       (Ex.5, p.2);

29

30       I hereby declare that all statements herein of my own knowledge are true and that

31    all statements made on information and belief are believed to be true; and further that

1   these statements were made with the knowledge that willful false statements and the like
2   so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001.
3
4
5   _____          _____
6   Rajesh Bhatia                      Date
7
8
9   _____          _____
10  Nikhil Ganju                       Date
11
12
13  _____          July 10 2006.
14  Anil Kamath                        Date
15
16
17  _____          _____
18  Prashant Kulkarni                  Date
19
20
21  _____          _____
22  Phoumrin Tan                       Date

RULE 131 DECLARATION
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INTERNET ARCHIVE
WaybackMachine

Searched for http://www.eboodle.com
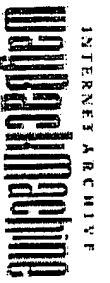
Enter Web Address: http:// [All] [Take Me Back]  Adv. Search Compare Archive Pages

89 Results

Note some duplicates are not shown. See all.
* denotes when site was updated.

## Search Results for Jan 01, 1996 - Jun 23, 2006

| 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 pages | 0 pages | 0 pages | 2 pages | 22 pages | 7 pages | 13 pages | 28 pages | 12 pages | 0 pages | 0 pages |
| | | | Nov 28, 1999 * | Mar 01, 2000 * | Feb 05, 2001 * | May 30, 2002 * | Feb 07, 2003 * | Feb 02, 2004 * | | |
| | | | Nov 29, 1999 | Mar 03, 2000 * | Mar 31, 2001 * | Jun 04, 2002 * | Feb 07, 2003 * | Feb 10, 2004 * | | |
| | | | | Mar 04, 2000 * | Apr 05, 2001 * | Jul 18, 2002 * | Feb 10, 2003 * | Mar 10, 2004 * | | |
| | | | | Mar 04, 2000 * | Apr 18, 2001 * | Jul 25, 2002 * | Feb 12, 2003 * | Mar 19, 2004 * | | |
| | | | | Apr 07, 2000 * | May 15, 2001 * | Aug 02, 2002 * | Mar 20, 2003 * | Mar 23, 2004 * | | |
| | | | | May 10, 2000 * | Jul 21, 2001 * | Aug 10, 2002 * | Mar 25, 2003 * | Mar 25, 2004 * | | |
| | | | | May 11, 2000 * | Nov 29, 2001 * | Sep 21, 2002 * | Mar 27, 2003 * | Mar 28, 2004 * | | |
| | | | | Jun 19, 2000 * | | Sep 26, 2002 * | Apr 07, 2003 * | May 05, 2004 * | | |
| | | | | Jun 20, 2000 * | | Sep 27, 2002 * | Apr 19, 2003 * | May 19, 2004 * | | |
| | | | | Jun 20, 2000 * | | Nov 05, 2002 * | May 25, 2003 * | Jun 09, 2004 * | | |
| | | | | Jun 21, 2000 * | | Nov 24, 2002 * | May 28, 2003 * | Jun 12, 2004 * | | |
| | | | | Jul 07, 2000 * | | Nov 25, 2002 * | May 31, 2003 * | Jun 15, 2004 | | |
| | | | | Aug 15, 2000 * | | Nov 29, 2002 * | Jun 12, 2003 * | | | |
| | | | | Aug 17, 2000 * | | | Jun 21, 2003 * | | | |
| | | | | Oct 02, 2000 * | | | Jun 22, 2003 * | | | |
| | | | | Oct 18, 2000 * | | | Jul 17, 2003 * | | | |
| | | | | Oct 18, 2000 * | | | Jul 19, 2003 * | | | |
| | | | | Oct 19, 2000 * | | | Sep 23, 2003 * | | | |
| | | | | Oct 19, 2000 * | | | Oct 03, 2003 * | | | |
| | | | | Nov 09, 2000 * | | | Oct 17, 2003 * | | | |
| | | | | Nov 20, 2000 * | | | Oct 20, 2003 * | | | |
| | | | | Dec 06, 2000 * | | | Oct 26, 2003 * | | | |
| | | | | | | | Oct 28, 2003 * | | | |
| | | | | | | | Nov 19, 2003 * | | | |
| | | | | | | | Nov 27, 2003 * | | | |
| | | | | | | | Dec 01, 2003 * | | | |
| | | | | | | | Dec 16, 2003 * | | | |
| | | | | | | | Dec 28, 2003 * | | | |

http://web.archive.org/web/*/http://www.eboodle.com

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eBoodle Home Page

Join | Login | Home | Help

**MyBoodle** | **Browse Stores** | **Enable eBoodle Bar** | **Refer & Earn !** | **Feedback**

**Special Offer!**

**Limited time offer:**

Make hundreds of dollars by referring your friends to eBoodle. Earn $1.00 for every friend that signs up. Then earn MORE when they shop with us. The dollars can add up fast, but you have to be the first to tell your friends. So join now! It's fast, free and simple.

**Charity Special!**

We are happy to announce our partnership with

This holiday season, non-profit organizations can raise money by joining our Charity Program. Non-Profit Organizations, please click here!

**Member Login**

eBoodle ID

Password

**Forgot your password ?**

**Compare Prices!**

Search For:

In Books

☑ Match all keywords

The eBoodle Bar is a free shopping assistant that works with your web browser.
It takes less than 20 seconds to get your own eBoodle Bar.
What does eBoodle do for you?

"The best bar on the Web!"

It's fast, it's easy, it's free.

**Feedback** | **Company Info** | **Jobs** | **Privacy Policy**
Copyright © 1999 eBoodle Corporation. All Rights Reserved.

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eBoodle Home Page

Join | Login | Home | Help

**MyBoodle** | **Browse Stores** | **Enable eBoodle Bar** | **Refer & Earn !** | **Feedback**

**Member Benefits**
- Earn $ with cash back
- Make $ from referrals
- Auto Form-Fill
- Track transactions
- Find the best deals fast
- Private and Secure

**eBoodle Bar**
- Loads fast!(<20 secs)
- Easy to use
- Nonintrusive
- Feature Rich

Downloading eBoodle Bar

eBoodle will now download the eBoodle Bar onto your computer ....
This will let you use all the services offered by eBoodle.

A security dialog box will appear.
Please click Yes on the dialog box to install and run the eBoodle bar.
You can start shopping with the eBoodle Bar as soon as the update is
complete.

You are safe with eBoodle. We respect your privacy and we use the
latest security technology to keep your personal information safe.
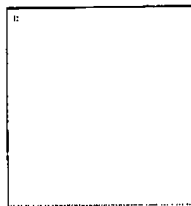
reviewed by
**TRUST**
site privacy statement

**Feedback** | **Company Info** | **Jobs** | **Privacy Policy**
Copyright © 1999 eBoodle Corporation. All Rights Reserved.

eBoodle Home Page                                              Join | Login | Home | Help

**MyBoodle** | **Browse Stores** | **Enable eBoodle Bar** | **Refer & Earn !** | **Feedback**

**Join eBoodle**

- Step 1: Create ID
- Step 2: Personal Info
- Step 3: Download

**Member Benefits**

- Earn $ with cash back
- Make $ from referrals
- Auto Form-Fill
- Track transactions
- Find the best deals fast
- Private and Secure

**eBoodle Bar**

- Loads fast!(<20 secs)
- Easy to use
- Nonintrusive
- Feature Rich

Join eBoodle / Step 1 of 3: Create your eBoodle ID

**To join eBoodle, please complete the information below. A new email address (*your-eboodleid*@eboodle.com) will be created for you by eBoodle. Email sent to your eBoodle account automatically forwards to your email address on record.**

| | |
|---|---|
| eBoodle ID | For example, **jsmith**, or **Born2Shop** |
| Password | Must be at least 6 characters long |
| Re-Enter Password | |
| Email Address | Needed for Cash Back |
| Referrer ID (optional) | eBoodle ID of the person who referred you to eBoodle |

**Feedback** | **Company Info** | **Jobs** | **Privacy Policy**
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## The eBoodle Referral Program

- Who should I tell?
- How should I tell them?
- When should I tell them?
- What if I want to get serious and maximize my earnings?
- How do I join?
- How much can I earn?
- How and how often do I receive payments?
- How do I get credit for the referrals I make?
- What are the rules and restrictions?

## Refer & Earn Millenium Offer

- How do I make money?
- Is there a limit to how much I can make?
- Do I have to be a member to get paid for each referral?
- Does this replace the eBoodle Referral Program?
- How long will this special offer last?
- Are there any rules or restrictions?

## Security and Privacy

- What steps has eBoodle taken to ensure the security and privacy of its members?
- How do I know if my credit card and personal information is secure?
- How do I protect the privacy of my eBoodle account after logging in, to prevent anyone else from using my personal information?

## Technical Matters

- Is there a way to use eBoodle on a different computer?
- What are the system/browser requirements for eBoodle? Does eBoodle support Macintosh, AOL, Unix?
- I am using Internet Explorer, but am

EXHIBIT 1 - page 5 of 11

having trouble logging in or accessing certain eBoodle functions. What is wrong?

- Where is the information in MyBoodle stored?

Other Questions/Concerns

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How eBoodle Works

- What is eBoodle?
- Does eBoodle cost any money?
- Does eBoodle process transactions?
- Is eBoodle partial to certain stores?
- Is eBoodle secure?

Q: What is eBoodle?

A: eBoodle is the Internet's first complete online shopping assistant. eBoodle consists of the web site www.eboodle.com and the eBoodle Bar. People can use eBoodle to search the Web for the best deals, get cash back on online purchases, automatically fill forms on e-commerce web sites, and earn money through referrals.

Q: Does eBoodle cost any money?

A: No. eBoodle is a free service.

Q: Does eBoodle process transactions?

A: No. eBoodle's store partners process all transactions.

Q: Is eBoodle partial to certain stores?

A: No. eBoodle strives to provide its users with an unbiased picture of deals on the Web.

Q: Is eBoodle secure?

A: Yes. eBoodle employs many advanced security features and is Verisign certified. Click here for more information.

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This help section contains valuable information about the services offered by eBoodle. If, after reading this FAQ, you still have questions or comments about eBoodle, please send us an email.

How eBoodle Works

- What is eBoodle?
- Does eBoodle cost any money?
- Does eBoodle process transactions?
- Is eBoodle partial to certain stores?
- Is eBoodle secure?

Membership

- How do I join eBoodle?
- What rules are eBoodle members expected to abide by?
- Do I have to be a member to use eBoodle's services?

Shopping

- How does eBoodle help people shop?
- How does browsing work?
- How does comparison shopping work?
- How can I be sure that eBoodle will find me items at the lowest possible prices?
- How do I request that a certain online store gets added to the eBoodle community?
- How can I get more information on specific products?

The eBoodle Bar

- Can I make the eBoodle Bar go away, so it doesn't show up with the browser every time?
- How do I uninstall the eBoodle Bar?
- How do I enter/edit my preferences for the eBoodle Bar?
- What should I do if I cannot locate the eBoodle Bar?
- Does the eBoodle Bar affect my Internet surfing?

Form Filling

- What do users have to do to ensure that

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forms fill properly?
- What types of forms does the eBoodle Bar fill?
- What is the difference between Auto Form Filling and Drag & Drop Form Filling?
- What specific web sites does eBoodle form filling support?
- I've changed my login information for a specific web site. How do I change it in eBoodle?
- Why doesn't m y eBoodle ID work at certain online stores?

Billing & Shipping

- How does eBoodle deal with billing, shipping, and order processing?
- Does eBoodle process credit card information or deliver products?
- How do I enter, update, and edit my billing and shipping information?
- If eBoodle doesn't process my order, then why do you need my credit card and shipping information?

Member Accounts and Cash Back

- What do I have to do to ensure that I receive the cash back I am entitled to?
- Why do I have to use my eBoodle email address at the stores at which I shop?
- How can I access my account, transaction history, and cash back information?
- How does eBoodle track my cash back earnings?
- How and how often do I receive cash back payments from eBoodle?
- Is my referral account separate from my user account?
- If the merchandise is returned, will I still get to keep my commissions?
- How does eBoodle compute my cash back?
- What if I forget my password?
- How do I update my profile information?

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## The eBoodle Referral Program

- Who should I tell?
- How should I tell them?
- When should I tell them?
- What if I want to get serious and maximize my earnings?
- How do I join?
- How much can I earn?
- How and how often do I receive payments?
- How do I get credit for the referrals I make?
- What are the rules and restrictions?

## Refer & Earn Millenium Offer

- How do I make money?
- Is there a limit to how much I can make?
- Do I have to be a member to get paid for each referral?
- Does this replace the eBoodle Referral Program?
- How long will this special offer last?
- Are there any rules or restrictions?

## Security and Privacy

- What steps has eBoodle taken to ensure the security and privacy of its members?
- How do I know if my credit card and personal information is secure?
- How do I protect the privacy of my eBoodle account after logging in, to prevent anyone else from using my personal information?

## Technical Matters

- Is there a way to use eBoodle on a different computer?
- What are the system/browser requirements for eBoodle? Does eBoodle support Macintosh, AOL, Unix?
- I am using Internet Explorer, but am

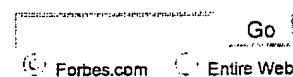EXHIBIT 1 - page 10 of 11

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- having trouble logging in or accessing certain eBoodle functions. What is wrong?
- Where is the information in MyBoodle stored?

Other Questions/Concerns

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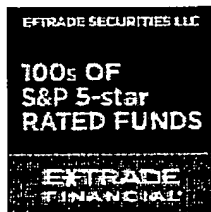
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Deal Of The Day: Deutsche Makes A Play For Online Broker

Forbes Faces: Michael Schumacher

Top Of The News: Bridgestone's Ono Out Of The Fire

Ten O'Clock Tech: Tunes On The Visor

News Scan A.M.

# Are you ready for e-shopping assistants?

Om Malik, Forbes.com, 12.02.99, 12:50 PM ET

If you are finding yourself overwhelmed by holiday shopping, and finding bargains on the Web is becoming a nightmare, relax, you have help. No, these are not the comparison shopping agents known as shopping bots, but an emerging technology called electronic personal shopping assistants.

Two venture capital-fattened startups, eBoodle.com and Dash.com, are the first to the market with this new technology. These companies are the next evolutionary step in the online comparison-shopping universe.

During the holiday season of 1998, comparison-shopping search engines such as MySimon.com caught the fancy of online shoppers. Since then, the Web has been overrun by similar services such as Dealtime.com and Clickthebutton.com.

New York-based Dash.com has launched a small software program dubbed DashBar, which plugs right into your Web browser after downloading. DashBar automatically detects when you start shopping and provides a list of over 100 e-stores on a drop-down menu. Users can get up to 25% in cash on their purchases back in addition to other special offers.

However, the most interesting aspect of this software is a messaging feature that notifies members in real-time about better offers on the items they want to buy.

On the other hand, eBoodle.com, which has been beta testing and is scheduled to go live Dec. 4, has built a robust shopping network with more than 1,100 e-tailer partners, says Anil Kamath, the company's chief executive and president. Kamath left his job at the D.E. Shaw & Company hedge fund and started the Mountain View, Calif.-based company in January 1999 with a $3 million investment from Invesco Venture Partners.

"Our initial offering is a personal shopping bar and it is a shopping solution.

The bar allows you to find products and compare prices and helps you complete the transaction," says Todd Lowden, vice-president of business development at eBoodle.com. The software, called the eBoodle-bar, has features such as automatic form-filling and transaction record keeping along with the comparison-shopping features.

Lowden, who left the AOL/Netscape joint venture to work at eBoodle.com, thinks that these shopping bars will help solve the problems normally associated with buying online.

He says that the biggest problem right now with shopping online is that shoppers need to fill out a different form on each Web site they shop at.

Companies such as Dash.com and eBoodle.com are addressing a big problem. According to Cambridge, Mass.-based market research firm

Forrester Research, nearly two-thirds of customers abandon their shopping carts mid-transaction. Another research firm, New York-based Jupiter Communications, estimates that nearly 27% of all shoppers abandon e-tailer sites due to complications associated with filling out forms online.

"We are addressing this problem, as consumers sign up with us once and then can shop without filling out any different forms," says Lowden.

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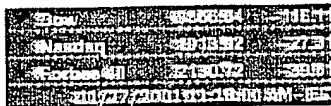
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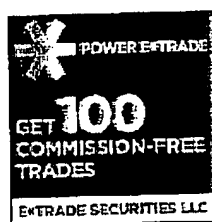Top Of The News: Bridgestone's Ono Out Of The Fire

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## Raising the bar

Penelope Patsuris, Forbes.com, 12.17.99, 12:00 AM ET

Most e-commerce sites may have yet to make money, but that isn't stopping many more startups from trying to make a buck off of helping people shop online.

The first generation of shopping bots, like Amazon's amzn (nasdaq: amzn) Junglee and Excite's athm (nasdaq: athm) Jango, were long ago acquired by bigger commerce players. Now, destination sites like MySimon and Dealtime have started to gain traction with shoppers. Just as they are doing so, however, browser companion shopping tools like Dash and eBoodle have entered the e-tailing fray and are threatening to dethrone them.

While the number of online shopping tools continues to grow, margins remain thin, leaving onlookers wondering whether there will ever be enough in the way of earnings to go around.

These new shopping tools, which are software plug-ins that must be downloaded onto a user's machine, take the comparison shopping site concept a few steps further by offering consumers both portability and discounts. Rather than trying to lure shoppers to destination sites to find the best deals, these tools sit on a user's Web browser and can be used to search for items or compare them from anywhere on the Web.

In recognition of this trend, MySimon has just teamed up with the navigation browser companion FlySwat to create its own browser-based search-and-compare shopping tool. Just weeks ago DealPilot.com, the books and music comparison shopping site, launched its go-anywhere-tool DealPilotExpress. Of course Amazon.com has a similar service in beta, dubbed zBubbles, that lets shoppers read and post notes to one another all over the Web, sharing tips on who has better prices to the quality of a merchant's customer service.

Dash and eBoodle are the two services most recently on the scene, and each have big backers. Behind eBoodle is Invesco Financial Services, which also funded Healtheon hlth (nasdaq: hlth). Dash raised $12 million from AT&T Ventures, JP Morgan, Wasserstein Perella Ventures and Affinity Partners, and last week ad giant The Omnicom Group omc (nyse: omc) took an undisclosed minority stake in the service.

Both startups are luring shoppers to use their respective tool bars with promises of cash-back rewards. That is, users that make a purchase from a site partnered with either Dash or eBoodle are often entitled to get a percentage of the price back, much like a rebate. The discounts can range from as little as 1% to as much as 25%--not necessarily enough to consistently inspire users to go out of their way and use the tools.

EBoodle is angling to become a consumer-centric shopping service, offering tools like an automatic form filler and an auto-login feature to speed entry to password protected sites. Users can type "golf clubs," for example, into the search box on its bar--no matter what Web page they happen to be visiting--and eBoodle will serve up a list that can be used to compare by vendor, original price, the amount of cash back

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they're eligible for, or net price. Pretty cool, except that on one test run no actual clubs turned up until the fifteenth or so listing. Before clubs, came things like a golf score card paper shredder and a TV remote control in the shape of a golf hole.

Both eBoodle and Dash offer merchants contextual marketing, meaning the chance to pitch consumers when they're actually looking for whatever the retailer is selling. But what's interesting about Dash, and may give it a better shot at success, is the more aggressive sales strategy it takes on behalf of its merchant partners.

Founder and Chief Executive Officer Dan Kaufman calls Dash's tool a "consumer advocate," but in fact it appears to operate primarily with the interest of merchants in mind. It has no comparison tool, and its search feature will only return listings for its 100 or so partner stores.

The Dash technology reads not only what URL a user is visiting, but it also scans the contents of every page being viewed for precise targeting. If the word "khakis" appears several times on one page, the Dash bar will serve up a banner touting 5% cash back at a Dash partner that carries khakis, like JCrew.com. The same J.Crew banner will also likely appear if a user visits one of its competitors, like Gap.com. And even when the Dash bar is minimized--all of these browser shopping tools can be--and a user visits Gap.com, a pop-up window will appear to remind them of the savings they'll get if they go to JCrew.com via Dash.

Beyond the immediate marketing opportunities that this technology presents, this data could hold enormous possibilities. "We're about getting more information than anyone else," says Kaufman. How he'll wield this powerful tool is still under wraps, but Kaufman prides himself on the lengths Dash goes to both protect consumer privacy and give users control over their personal information.

At this stage, these plug-ins have simple but weak business models. For the most part all Dash and eBoodle have done is join as many e-tailer affiliate programs as they can find. They're only getting paid when someone buys something, not when a banner is displayed or a window pops up. Instead of keeping the entire referral fee they get for delivering a customer to an e-commerce site--typically between 5% and 10% of a completed transaction--they're splitting it in a variety of ways with consumers. Both companies are moving forward to cut formal deals with merchants rather than just being an affiliate but are still compensated only for sales.

To many this looks like slicing a sliver into something infinitesimal, rather than a business-building strategy. "I have yet to see someone who has built a substantial revenue base off of an affiliate program," says Jupiter Communications e-commerce analyst Ken Cassar. "That doesn't mean this will be the case in the future, but on average, for every 10,000 visitors an affiliate drives maybe 1% might go to the affiliate site and just 1% of that 1% may buy anything at all."

What will determine whether any of these plug-ins can make a go of affiliate fees is distribution, and this issue alone presents several hurdles. "Getting onto the user's desktop is difficult because people don't like plug ins," says IDC e-commerce analyst Malcolm MacLachlan. PC desktops are already overflowing with various tools for this or that, and the average machine only has so much capacity. Also, many employees are blocked from doing downloads by corporate firewalls at work, where people often shop. Only a few Web outfits, like RealNetworks rnwk (nasdaq: rnwk), have managed to succeed with downloads.

And even if Dash and eBoodle do score lots of downloads there's still no guarantee of success. "They feel that if they can just get on the desktop everything else will work itself out," says Cassar, "but I'm not so sure."

The problem with any shopping tool, whether it's browser-based or a

destination site, is its inherent conflict with retailers. At the same time that these tools are driving down retail prices by facilitating comparison shopping, they are also relying upon the merchants for their revenue. To further complicate the issue, both parties want to own the customer.

"The value these agents provide is largely derived by the retail brands they represent," says Boston Consulting Group analyst James Vogtle. "Without the association of these brands people wouldn't shop with them, so I don't know how any agent could get to be all that powerful."

Despite the many contradictions at work in the retailer/shopping bot? relationship, these tools are helpful for comparison shopping and locating price breaks. "They're so useful that people will definitely use them in large numbers," says IDC's MacLachlan. "Which tools end up profiting anytime soon is another matter. But it's not like many of the merchants are profitable either."

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## eBoodle.com and Google Team to Deliver Powerful Online Shopping Assistant

**With Google's Advanced Search Technology and GoogleScout, eBoodle Bar Becomes the Best Bar on the Web for Shopping and Surfing**

**MOUNTAIN VIEW, Calif., December 7, 1999**—eBoodle.com™, provider of the leading online shopping assistant, and Google, Inc.$^{SM}$, a developer of advanced, next-generation search services, announced today that the companies have finalized a partnership to deliver a more robust search experience for online consumers. Based on the agreement, eBoodle.com will offer Google's innovative search services within its eBoodle Bar, a downloadable personal assistant. With this partnership, eBoodle.com is taking the first step toward making the eBoodle Bar the most useful bar on the web for shopping and surfing.

Google, one of the fastest growing search services and the recent recipient of PC Magazine's prestigious Technical Excellence Award, provides a high-performance, scalable search technology that enables rapid access to information on the Internet. Google's GoogleScout™, a revolutionary new feature that expands a user's access to related information beyond the results of a search query, makes finding information and navigating the web faster and easier.

"By utilizing Google's innovative search technologies, eBoodle.com is offering consumers an even more powerful tool for efficient online commerce," said Dr. Anil Kamath, president and CEO, eBoodle.com. "Our partnership signifies the growing acceptance of eBoodle's agent technology as a means of delivering compelling web services to users."

A free service, eBoodle.com helps consumers purchase products on more than 25,000 web sites and has direct links to 1,100 of the world's most prominent e-Tailers. It is the first company of its kind to combine a product and store search feature, price comparison engine, cash-back program, automatic form-filler, and transaction management into a comprehensive solution that truly enhances consumers' online shopping.

"Google's search capabilities give eBoodle's customers a convenient, fast, and easy solution for finding information and navigating the web," said Larry Page, Google president and co-founder. "Using Google from the eBoodle Bar gives users easy one-click access to information anywhere on the web. Searches are further enhanced by GoogleScout, which expands the scope of a search to related information on similar sites. Working together, eBoodle.com and Google are providing online shoppers the most innovative and effective approach for easily accessing information."

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Google's underlying technology integrates a clean, easy-to-use interface with next-generation technology to deliver search and related link search results based on importance and relevancy. In addition to the eBoodle Bar, Google's search services are offered to Internet users at www.google.com, and to organizations for use on their sites with the Google WebSearch and Google SiteSearch services. Google WebSearch is a cost-effective way to provide the highest quality web-wide search capabilities directly from any website. A hosted version of Google's widely acclaimed search engine technology, Google WebSearch gives any website a sophisticated solution for searching the web and opportunities for increased page views and revenue.

The Google SiteSearch service, which also is hosted and supported by Google, enables customers to feature high-quality, site-specific search capabilities on their websites to help visitors quickly and easily locate information. Google's powerful SiteSearch capabilities are designed to improve site navigation and usability, as well as increase site stickiness. With Google SiteSearch, visitors looking for specific product, service, or company information easily find the information they are looking for, helping to reduce customer service calls and enhance customer communications. For e-commerce sites, Google SiteSearch improves sales opportunities by getting customers to product and service information quickly.

**About Google Inc.**

Google was founded in 1998 by Stanford University Ph.D. candidates Larry Page and Sergey Brin to create a new generation of powerful, scalable search engine products to improve the user experience of searching the web. Based on four years of advanced research in computer science, Google is dedicated to providing the best user search experience by delivering a powerful, yet simple-to-use format for finding the most relevant answers to search queries. Google currently offers search solutions through its own destination site at www.google.com. The company also offers co-branded web search and site search solutions for information content providers. Google, based in Mountain View, Calif., is privately held. Its funding partners include Kleiner Perkins Caufield & Byers and Sequoia Partners. More information about Google can be found on the company's website at www.google.com.

**About eBoodle.com**

eBoodle.com provides a comprehensive online assistant through a downloadable agent that dramatically enhances the way individuals find and interact with web content and services. eBoodle.com is the first company of its kind to help online consumers quickly find merchandise, effectively compare prices for the best values available, and simplify the overall purchasing process. With eBoodle.com and the eBoodle Bar, online shoppers can easily purchase merchandise from the more than 25,000 e-commerce sites available today. Supported by an executive team, board of directors, and advisory board that include premier technology and business professionals, eBoodle.com is poised for success in the explosive e-commerce marketplace that is expected to exceed

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$600 billion by 2002 (Forrester Research, 1999). Founded in June of 1999, eBoodle.com is headquartered in Mountain View, California and is funded by Invesco and other private investors. For more information about eBoodle.com visit http://www.eBoodle.com, send email to info@eBoodle.com, or call 650-623-0800.

### ###

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## Bizrate.com To Offer A New Online Shopping Solution
April 3, 2000

BizRate.com, a leading consumer online marketplace, today announced its agreement to acquire eBoodle.com an innovator of browser companion technology. BizRate.com will merge eBoodle's browser companion with its existing technology base to offer consumers a suite of tools that will dramatically enhance their online shopping experience.

"This acquisition will change the way our users shop online," said Chuck Davis, president and chief executive officer of BizRate.com. "The power of BizRate.com will now be available to consumers whenever and wherever they shop online so they can make smarter and faster buying decisions."

Expected to be available this summer, the browser companion will travel with users as they window shop on the Web, providing instant access to a comprehensive suite of tools, including BizRate.com merchant ratings, comparison shopping information and personalized content.

If shoppers are considering a purchase from a particular site, a single click will allow them to access product reviews, compare prices across merchants, view special offers or discounts, and evaluate merchant ratings, from on-time delivery and product selection to customer support and privacy policies.

The content of the browser bar is controlled by the user and includes a personalized ``single click" digital wallet. When the wallet is used to make an online purchase, it automatically enters passwords, credit card information, and shipping and billing addresses at the point of sale to expedite the transaction.

In addition, users can track the order status of transactions from any merchant, as well as related store receipts and e-mail correspondence.

"This acquisition helps bring consumers one click closer to the ultimate shopping experience," said Dr. Anil Kamath, founder of eBoodle. "It makes sense not only for BizRate.com and eBoodle, but for online shoppers who desire instant access to relevant buying information whenever they want it."

In his new position as vice president of client applications, Kamath will report to Farhad Mohit, BizRate.com's chairman and chief strategic officer, and will continue to oversee technology developments related to eBoodle and manage the day-to-day operations of 30 employees.

eBoodle's office is located in Mountain View, Calif., and will now serve as BizRate.com's Northern California office.
(www.eBoodle.com.com)

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Founded in 1996, BizRate.com (www.bizrate.com) is an open and comprehensive marketplace, governed by customer ratings, linking millions of online buyers to leading online merchants each month.

As a trusted market-maker, BizRate.com combines valuable customer-generated information with a powerful set of shopping tools to help online shoppers confidently and easily decide where to buy online.

BizRate.com's proprietary customer ratings form the backbone of the marketplace and are derived from its position as the only company trusted by over 3,600 online stores to collect direct customer feedback and transactional information at the point of every purchase.

These ratings, widely recognized as the standard for customer satisfaction on the Web, are the only statistically rigorous way of differentiating retailers on "quality of service" metrics, allowing consumers to take the focus away from pure price comparisons.

In addition to on its site, BizRate.com's ratings also appear on Consumer Reports Online and Consumer Reports magazine, as well as Microsoft Network, AltaVista, GO Network, Go2Net, Snap, Citibank, iChoose, Brodia, Dealtime and CNET.

eBoodle is an online shopping assistant dedicated to delivering the complete online shopping experience.

eBoodle enables users to save money and time through product searches, a vendor directory, form filling, and transaction tracking.

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## BizRate.com to Acquire eBoodle.com and Offer A Powerful Online Shopping Solution.

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BizRate.com to Offer Cutting-Edge Browser Companion

LOS ANGELES, April 3 /PRNewswire/ --

Shopping online just got one click easier. BizRate.com (www.bizrate.com), a leading consumer online marketplace, announced today its agreement to acquire eBoodle.com (www.eboodle.com), an innovator of browser companion technology. BizRate.com will merge eBoodle's browser companion with its existing technology base to offer consumers a suite of tools that will dramatically enhance their online shopping experience.

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## Ecommerce News

**April 3, 2000**
**BizRate.com Enhances Consumer Services**
**By Elizabeth Clampet**
While many companies have recently added business-to-business services to their product line, online shopping resource Bizrate.com Inc. Monday expanded with an acquisition that will increase its consumer services.

BizRate.com Monday purchased eBoodle.com, provider of a browser companion for personalized shopping, for an undisclosed sum. BizRate will integrate eBoodle's technology into its comparison shopping tools and other online shopping resources.

Terms of the deal were not disclosed.

The browser companion will be designed to travel with users as they window shop on the Web, providing access to a comprehensive suite of tools, including product reviews, price comparisons, special offers or discounts, merchant ratings and a digital wallet. BizRate.com's services will be included in the companion beginning this summer, the companies said.

"This acquisition will change the way our users shop online," said Chuck Davis, president and chief executive officer of

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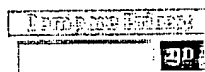
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| Sent: | Monday, May 01, 2000 10:19 AM |
| To: | Charu Rudrakshi |
| Cc: | Stacey Olliff |
| Subject: | RE: Doc for preparation of this weeks patent meeting |

Charu,


REDACTED


—Brad

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| | |
|---|---|
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| Sent: | Monday, May 01, 2000 7:05 AM |
| To: | Bradley M. Ganz |
| Cc: | stacey@bizrate.com |
| Subject: | Doc for preparation of this weeks patent meeting |

Brad,


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Thanks,

Charu

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# 1 Browser – Agent – Server Model

The current web-paradigm in which the browser sends requests and data to the server and the server responds with web pages has limitations for personalization. We are using a new paradigm *of context personalized browsing*. In this paradigm, in addition to the browser and the server, we have an agent that provides context relevant personalized assistance.

The agent monitors the pages being seen by the user on the browser window to determine the browsing context. The agent then sends information about the browsed page to the server. The server uses this information about the browsed page to determine the context. The server can avail of data stored in the database and also go out on the web to seek relevant information needed in providing assistance. The server uses these resources to provide the agent with pages, scripts and data that the agent then applies to enhance the browsing experience. e.g. if the user is looking at a form on Amazon, the agent sends the information (domain, user identity) to the server, which then returns the site specific name-value pairs, form filling scripts, personal data of the user, etc. so that the agent can fill the form.

# 2 Agent Architecture

In our architecture – the agent is a thin client composed of COM objects. The agent has 5 main components that enable the agent to provide a host of "Services" (eg. Purchase tracking, Form filling, etc.). Each of these services rely on the common components to execute their specific functionality. New services can be added incrementally or existing services can be enhanced to offer additional functionality.



eBoodie Agent Architecture

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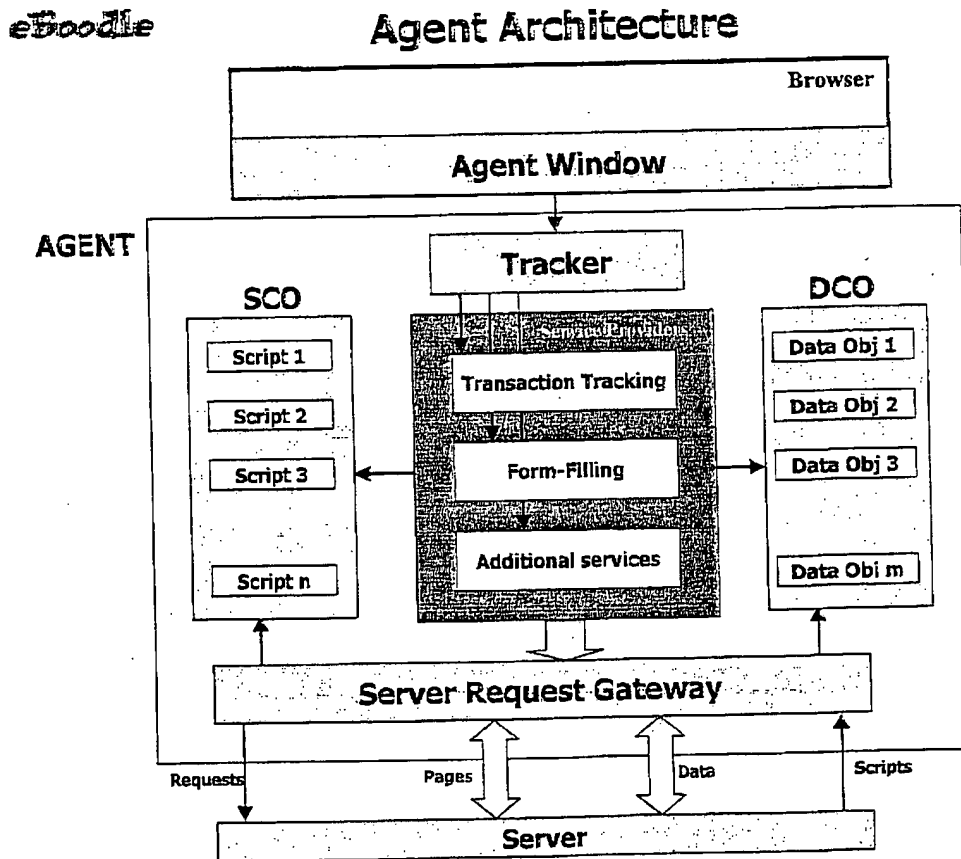
## 2.1 Agent Window

This is a thin browser bar, which resides within the browser and serves as a visual interface for agent-user communication. This window displays HTML pages. The window is the primary user interface that is used to display relevant information and also provide controls, which the user can invoke to get specialized assistance. e.g. in our transaction-tracking service, the agent window displays the cash-back earned when the user buys an item through eBoodle.com; in form-filling the user can use the agent window to change the credit-card that is used to buy the item.

## 2.2 Tracker

The tracker tracks the browser window to determine the location (url) of the user. It has the logic to detect a change of page e.g. if the user navigates from eBoodle.com to a product page at Amazon.com the tracker will detect this transition between pages.

## 2.3 Script Collection Object

The Script Collection Object stores a collection of scripts that are sent by the server and used by the agent to provide specific services. Since these scripts are dynamically generated by the server and made available to the agent service providers, this is a powerful way of adding new or modifying existing services, without a fresh install of the agent

## 2.4 Data Collection Object

Data specific to the user and the context is stored in this object. New data structures with corresponding scripts can be added to the agent to reflect changes to the website or offer enhanced services. Since the user specific data is server resident, it is not machine dependent.

## 2.5 Server Request Gateway

The Server Request Gateway interfaces between service providers and the server. On one hand, it routes requests, data and pages from the service providers to the server. On the other, it interprets server input and stores the scripts received from the server in the script collection object, the data in the Data collection object and the pages are displayed in the Agent window or the browser.

## Agent Service Providers

The service providers comprise the core of the agent – providing specialized services to the user. The tracker and the agent window interface with the service providers through the agent services interface. The service providers use the Server Request Gateway at the other end to communicate with the server. They also have access to the Script and Data Collection Objects. Each service provider is a COM object that is downloaded from the server and plugged in to the agent where they are available until they are uninstalled.

Some examples of service providers are:

### 2.5.1 Form-Filling

The tracker invokes the form-filling service provider when the browser is at a form. It communicates with the server to get relevant data and scripts needed to fill the forms. The data gets stored in the data collection object. For specialized services like changing the credit card used in the transaction, the service provider can use scripts from the Script Collection object.

### 2.5.2 Transaction Tracking

The transaction tracking service provider recognizes and sends the transaction related pages to the server while the user is purchasing an item. The server extracts the transaction information, stores it for future referral and uses it to compute the cash back.

We can add other service providers e.g. a service which provides a list of sites related to the domain where the user is browsing, or newsgroups and surveys related to the content of the page being displayed or if the person is looking at an item in an online store, we can provide the price of the same item at other stores.

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# 3 Server Architecture

The server side has an API for interfacing with the Agent. The server receives requests, data and pages from the agent and sends data, pages, and scripts back to the agent. Our current server architecture has 3 major components that are shared by a variety of application service providers. New application service providers can be added that use the shared components to offer new services.

## eBoodle Server Architecture



*Company Confidential*
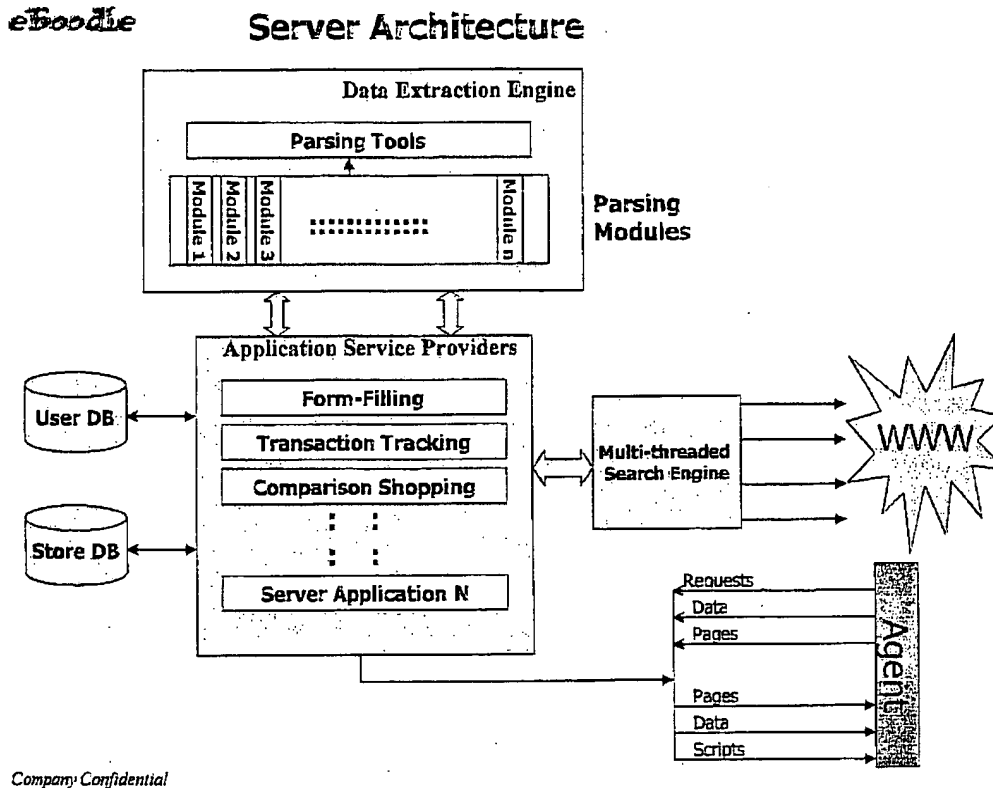
## 3.1 Database

The database primarily stores 2 kinds of data - profile information about the user and domain specific information about the sites. The user profile data helps in the personalization and the domain specific data is used for contextual information that can be shared by all the application service providers.

## 3.2 Multi-Threaded search engine

The multi-threaded search engine can go across the web concurrently to multiple sites on demand and obtain the desired pages from the sites. The multi-threaded engine manages the streams of data that are received from the threads and passes them on to the applications.

## 3.3 Data extraction engine

This is a very important and critical component of our architecture, which is used for extracting information from web pages. The application service providers use this engine to interpret and extract data from the pages that they receive from the agent or from the multi-threaded search engine. The data extraction engine uses parsing modules and parsing libraries to assist in the extraction of the relevant information.

*Parsing modules*
To extract data from a page, the page needs to be modeled to understand its underlying structure and the information that it represents. The parsing modules are individually written for each domain and each page type based on the

EXHIBIT 4 - Page 4 of 5

page model and the information that needs to be extracted. The data extraction engine uses these parsing modules to extract desired information. The modules and the data extraction engine use a library of commonly used methods that are shared and serve as a repository of domain independent parsing functionality.

## 3.4 Application Service Providers

The application service providers sit at the core of the server architecture enabling the various services. Our current architecture allows for many new services to be added in future. The service providers can avail of several important components like the data extraction engine, the multi-threaded search engine and the database in interpreting the data sent by the agent and in providing the agent with essential tools for context personalized browsing. The applications can also leverage the models that have been developed for the different page types at different stores.

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# Cindy J. Sullivan

| | |
|---|---|
| **From:** | Rajesh Bhatia [rajesh@eBoodle.com] |
| **Sent:** | Friday, May 19, 2000 4:10 PM |
| **To:** | brad@ganzlaw.com |
| **Subject:** | Fw: eBoodlebar document |
| **Attachments:** | eBoodle_000515d.doc |

Brad,
The attached doc has detail documentation about the bar and its architecture and components
thanks
raj

----- Original Message -----
**From:** Albert Hsu
**To:** Rajesh Bhatia
**Sent:** Friday, May 19, 2000 3:30 PM
**Subject:** eBoodlebar document

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5/11/2006

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## I.     Platform and Technologies

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A.    Windows NT 4.0
B.    Browser Helper Object
C.    Band Objects
D.    DDEML

## II.    Features

A.    Plug and play architecture of the bar.
B.    Caching techniques of the data.
C.    Interactions between sites HTML, browser companions HTML, javascript and MS Browser
D.    Minibar (eboodle.js)
   1. showMiniBar()
   2. isMiniBar()
   3. showiconizedBar()
   4. showfullBar()
E.    Wish list
F.    Form filling / Drag and drop
G.    Automatic login
H.    Cash back
I.    Transaction tracking
   1. Track emails (email parsing) – Order confirmation.
   2. Track html confirmation – html pages.

## III.    Implementation

A.    Program Flow
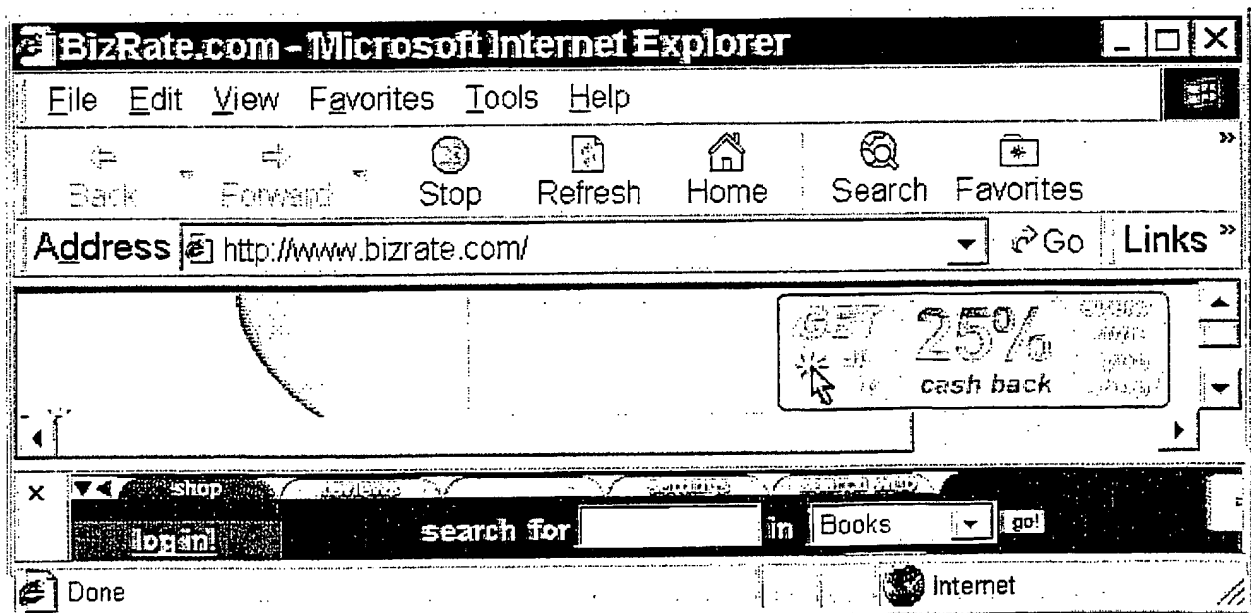


   1. eBoodle bar has implemented three SetSite, when does each one of them get called?
      a)    CeBObject::SetSite(IUnknown *pUnkSite)
            This function get called when a new explorer window is opened.
      b)    CeBoodleCommandBand::SetSite(IUnknown* punkSite)
            This function get called when command band is loaded EXHIBIT 5 - page 3 of 25

           05/11/06 1:57:15 PM

     c)   CebMainBrowserProxy::SetSite(IUnknown *pUnkSite)
This function is called from JavaScript whenever it initializes the object.
<OBJECT ID="MainBrowserProxy" CLASSID="CLSID:6CD4EFB4-22A7-11D3-95B9-0060976E9E6A" style="display:none;"></OBJECT>

B.     eBoodle bar construction
1. Internet explorer calls SetSite based on HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\Browser Helper Objects\13707362-08A2-11D3-A26D-0060976E9E6A in eBObjects.rgs.  There are two SetSite implementations in eBoodle bar, one in eBObject and the other in eBoodleCommandBand.
2. CeBObject::LaunchBoodler calls m_spWebBrowser2->ShowBrowserBar to show browser bar.

C.     CeBoodleCommandBand Implementation
1. CeBoodleCommandBand ::SetSite(IUnknown* punkSite)
    a)   When the user selects an Explorer Bar, the container calls the corresponding band object's IObjectWithSite::SetSite method. The punkSite parameter will be set to the site's IUnknown pointer.[1]
    b)   In general, a **SetSite** implementation should perform the following steps:[2]
       (1)   Release any site pointer that is currently being held.
       (2)   If the pointer passed to SetSite is set to NULL, the band is being removed. SetSite can return S_OK.
       (3)   If the pointer passed to SetSite is non-NULL, a new site is being set. SetSite should do the following:
          (a)  Call QueryInterface on the site for its IOleWindow interface.
          (b)  Call IOleWindow::GetWindow to obtain the parent window's handle, and save it for future use. Release IOleWindow if it is no longer needed.
          (c)  Create the band object's window as a child of the window obtained in the previous step. Do not create it as a visible window.
          (d)  If the band object implements IInputObject, call QueryInterface on the site for its IInputObjectSite interface. Store the pointer to this interface for use later.
          (e)  If all steps are successful, return S_OK. If not, return the OLE-defined error code indicating what failed.

D.     EBoodle Service:
1. CeBDomainTracker::DownloadBegin()
2. CeBDomainTracker::DownloadComplete()
E.     Internal Messages and their parameters
1. Messges
    a)   #define WM_EB_DOCTRACK      5000
    b)   #define WM_EB_RESIZE  WM_USER + 100
2. Parameters

---

[1] . "Creating Custom Explorer Bars, Tool Bands, and Desk Bands", MSDN
[2] . "Creating Custom Explorer Bars, Tool Bands, and Desk Bands", MSDN

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a)    #define DISPID_DOMAINCHANGE        6000
b)    #define DISPID_SECUREREQUEST       6001
c)    #define DISPID_EBHOME              6002
d)    #define DISPID_EBINIT              6003
e)    #define DISPID_EBLOGOUT            6004
f)    #define DISPID_EBRESETTIMEOUT      6005
g)    #define DISPID_EBLOGIN             6006
h)    #define DISPID_EBACCTSTAT          6007
i)    #define DISPID_EBRELOAD            6008
j)    #define DISPID_EBLOGOUTALL         6009
k)    #define DISPID_EBSHOWWINDOW        6010

F.    When CeBDomainDataMgr::OnDocumentComplete is called...

**CeBDomainDataMgr**

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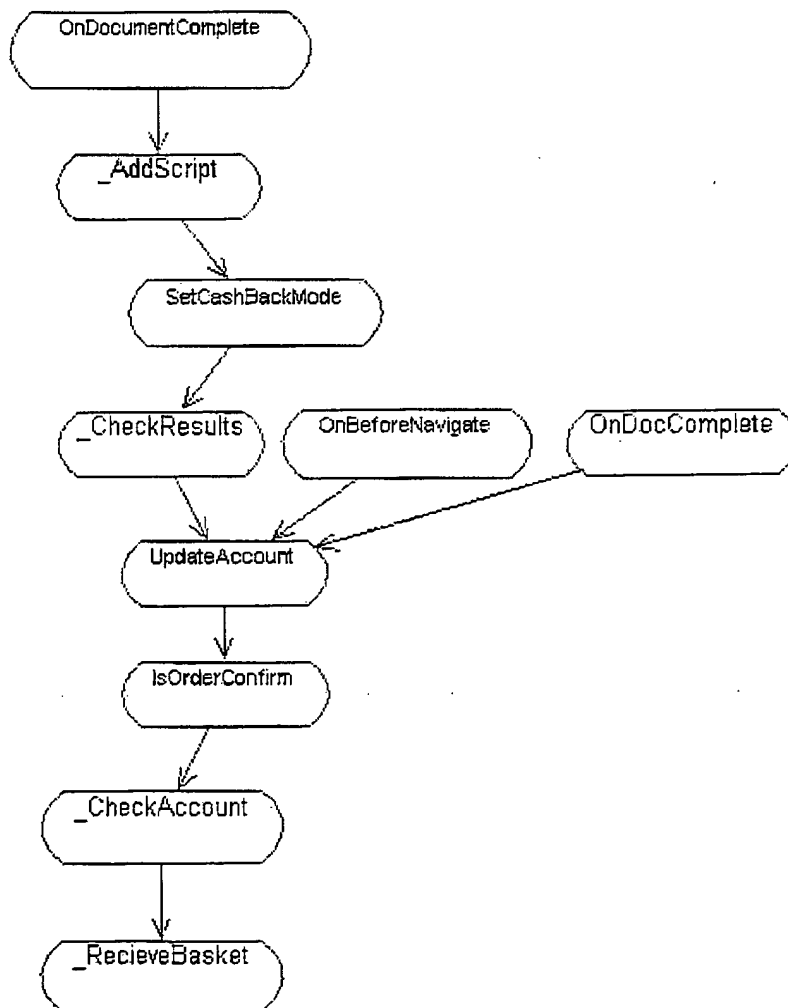
G.    Sopping by Category (within our site)

bizrate.com        We rate e-business.™                    home | help



Click on "Apparel & Accessories"

1. CeBDomainTracker::BeforeNavigate2

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2. CeBDomainTracker::NavigateComplete2

          05/11/06 1:57:15 PM

CeBDomainTracker::NavigateComplete2

CeBDomainDataMgr::OnNavigateComplete

CeBDomainDataMgr::InDomain

CeBDomainDataMgr::SetSequence

CeBDomainDataMgr::SetCashBackMode

CeBDomainDataMgr::RequestData

CeBDomainDataMgr::IsBeginCheckout

CeBDomainDataMgr::SetStatusOnDownload

EXHIBIT 5 - page 8 of 25
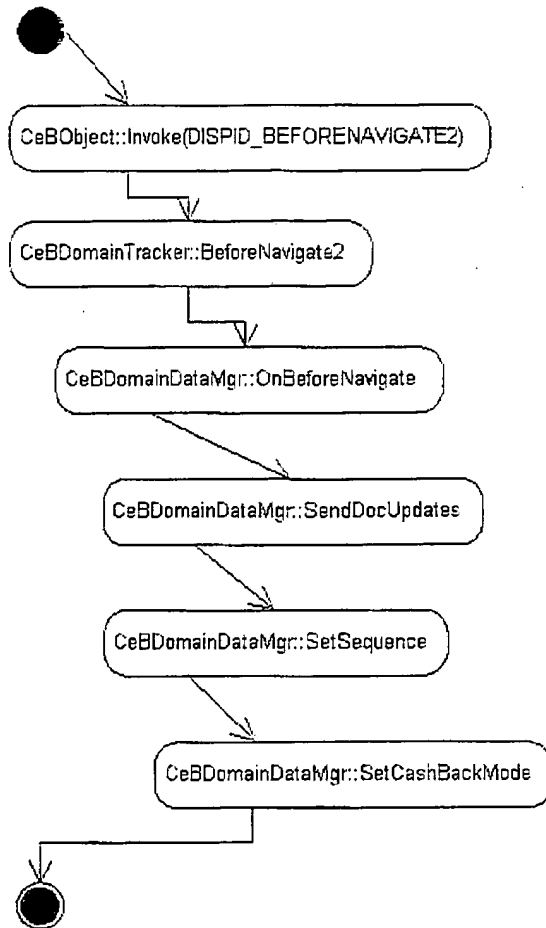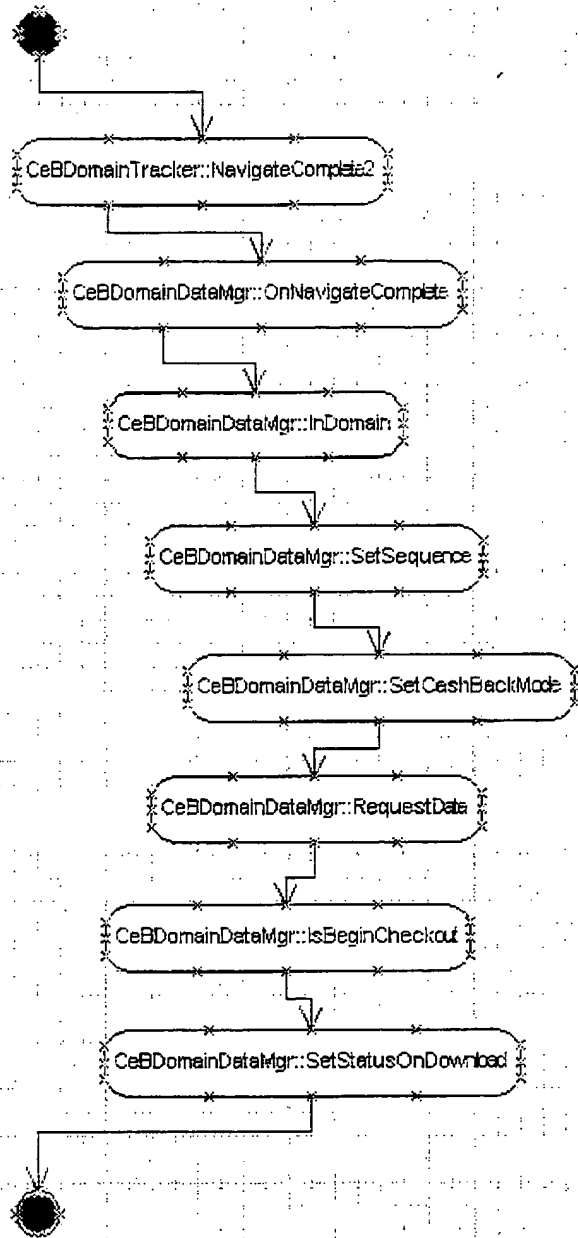
H.    Going from bizrate.com merchant list to a merchant:

**bizrate.com**    We rate e-business.™

Search    **Find A Store**
Categories    Enter store name   GO
GO

Home > Computer Software > Internet & Communications

**Search Results**    Searching for Internet & **Communications: Refine Your**
    Product Search

- **133 Stores**    Type: Any
- **7 Pages**    Manufacturer: Any
Refine Search    Keyword:
Preferences
Helpful Tips
**Sort Results By:**
Overall Rating
GO

**Look for Special Offers available at Top-Rated Stores:**
🔲 = Rebate    ✂ = $ Off    = % Off    = Shipping
Specials    = More Deals

Get These Hot Picks
From Top Rated Stores

buy.com

| Ratings | Store Name | Special | Deals |
|---------|-----------|---------|-------|
| ★★★★★ | | 🔲 | 98 |
| ★★★★★ | | 🔲 | 99 |
| ★★★★★ | | 🔲 | 99 |
| ★★★★★ | | | 98 |
| ★★★★★ | | | 98 |

$57.95

Cu See Me Pro

X ▼ ◄    reviews    settings   search-web  /
    search for    in Books

Click on "Office Depot"
Not complete!

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I.  Inside merchant's site:

Get special BizRater Member benefits.
Join now.

bizrate.com
We rate e-business.

Shop Our Online Catalog

Welcome...please log in.

**Office Supplies**

- Basic Supplies & Labels
- Breakroom Supplies
- Business Cases
- Calendars & Planners
- Desk Accessories

THIS WEEK!

SAUDER Computer Armoire ►DETAILS

SOLID WOOD COAT RACK ►DETAILS

This Week's Super Values...click here.

OfficeSolutions

Click on "Basic Supplies & Labels"
Not Complete!

J.  Login

GET 25% cash back

bizrate.com    We rate e-business.™    home | your ac

Search    Find A Store    Stores with

Categories    Enter store name   GO
GO

Shopping   Fillforms   Web Search   MyBizRate
BizRate    Username |bbar    Password |******    Go

Click "Go"

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```
        ●
        │
        ▼
┌─────────────────────────┐
│ CeBoodleView::OnLogin   │
└─────────────────────────┘
        │
        ▼
┌──────────────────────────────┐
│ CeBoodleView::OnDocumentTrack │
└──────────────────────────────┘
        │
        ▼
┌─────────────────────────┐
│ CeBDomainTracker::Login │
└─────────────────────────┘
        │
        ▼
┌────────────────────────────┐
│ CeBDomainDataMgr::eBLogin  │
└────────────────────────────┘
        │
        ▼
┌────────────────────────────┐
│ CeBDomainDataMgr::IsHome   │
└────────────────────────────┘
        │
        ▼
┌──────────────────────────┐
│ CeBDomainDataMgr::Login  │
└──────────────────────────┘
        │
        ▼
┌──────────────────────────────────┐
│ CeBDomainDataMgr::AttemptLogin   │
└──────────────────────────────────┘
        │
        ▼
┌──────────────────┐
│   EBGetCookie    │
└──────────────────┘
        │
        ▼
┌─────────────────────────────────────────┐
│ CeBDomainDataMgr::RequestUserScript     │
└─────────────────────────────────────────┘
        │
        ▼
┌─────────────────────────────────┐
│ CeBComModule::put_UserLogged    │
└─────────────────────────────────┘
        │
        ▼
        ●
```
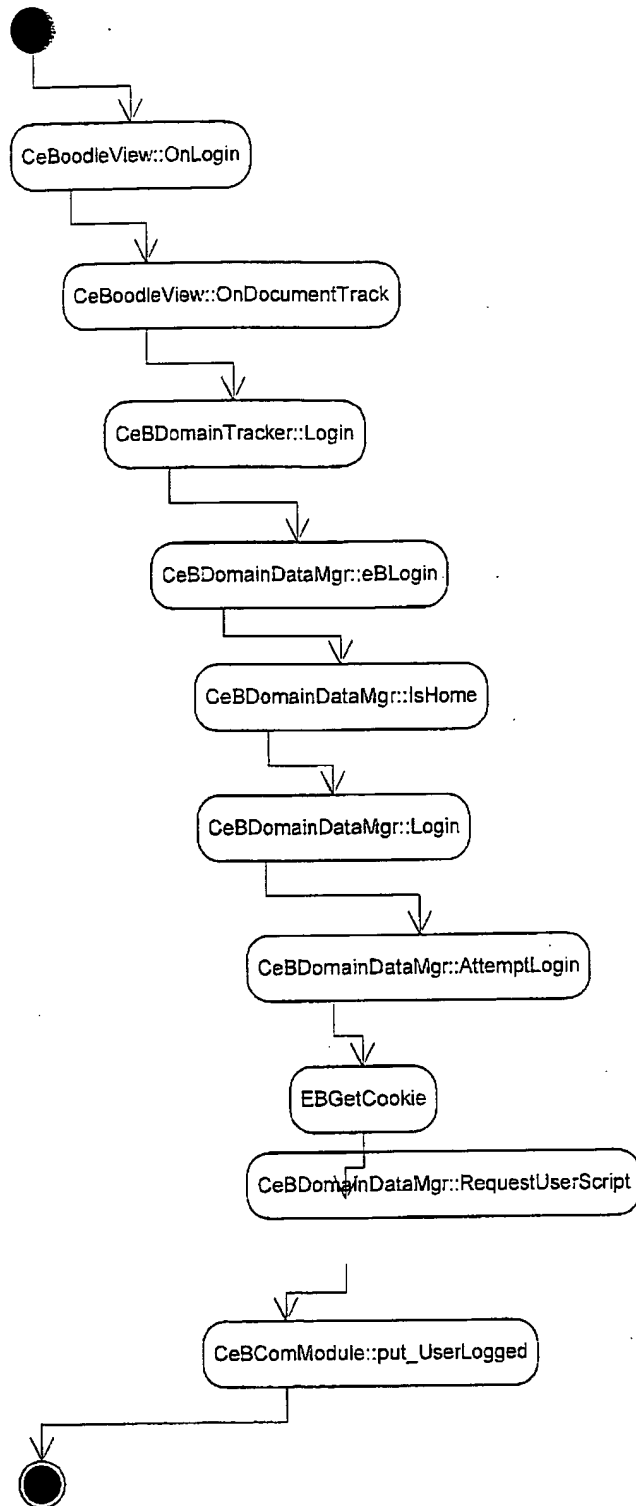
# IV.    Interfaces, Classes, and Utility functions

## A.    Data Objects
1. IeBDomainDataObjectCollection (CeBDomainDataObjectCollection)

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This object keeps collection of data for 'N' sites, where 'N' can be maximum size set in the object. LRU (Least Recently Used) techniques is used to decide the elements of current list.[3]

a)  Attributes

```
DomainDataList   m_ddata;


long             m_maxsize;
The value is set to 10 in
CeBDomainDataObjectCollection's
constructor.
```

b)  Methods

(1)     get_MaxSize(/*[out, retval]*/ long *pVal);
(2)     put_MaxSize(/*[in]*/ long newVal);
(3)     GetData(long index, BSTR * domain, LPDISPATCH * data);
(4)     HasDomainData(BSTR domain ,VARIANT_BOOL *);
(5)     Add(BSTR domain, IDispatch *);
        *Insert the element (DomainDataObject) if total elements are less than 10.*
(6)     get_Count(/*[out, retval]*/ long *pVal);
(7)     Item(BSTR domain,IDispatch **);
(8)     Remove(BSTR);
(9)     Clear();

2.  IeBDomainDataObject (CeBDomainDataObject)
    The site data object keeps information about a domain, such as Amazon.com or Fatbarin.com.

a)  Attributes

```
KeyValuePairs                        m_pages;
list of last N pages
ScriptList                           m_scripts;
scripts dependent on user
ScriptList                           m_domainscripts;
scripts independent of user
KeyValuePairs                        m_keyVals;
form data
CComBSTR                             m_domainUID;
CComBSTR                             m_domainPASSWORDS;
VARIANT_BOOL                         m_valid;
VARIANT_BOOL                         m_userDomainData;
CComBSTR                             m_alias;
Long                                 m_usage;
CComPtr<IeBEnumPageDataObject> m_pIEnumPageDO;
```

---

[3] . Page 4, BizRate.com Invention and Copyright Disclosure

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b)  Methods
  (1)  Domain Alias
    (a)  get_Alias(/*[out, retval]*/ BSTR *pVal);
    (b)  put_Alias(/*[in]*/ BSTR newVal);
      *Alias is the domain name of a site. The purpose of alias name is to save all relevant domains information to one login domain – the one where user starts shopping.*
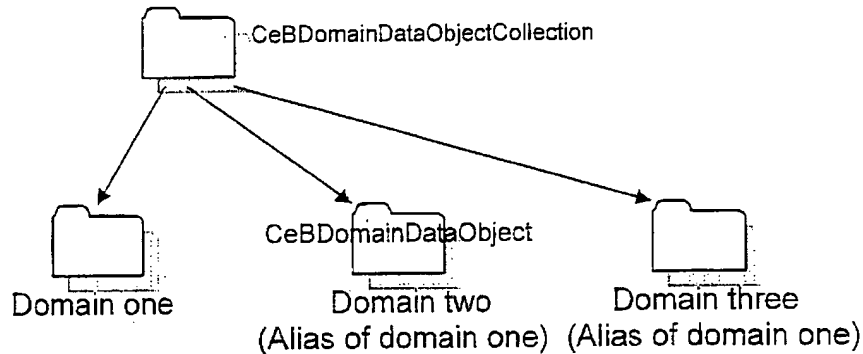


In above figure, if user login from domain one and redirect to domain two and the domain three, and finally returns back to domain one.
      Domain two and domain three will have the alias name to domain one. All three of them in CeBDomainDataObjectCollection will have the same pointer.
  (2)  Domain user ID and password
    (a)  get_DomainUID(/*[out, retval]*/ BSTR *pVal);
    (b)  put_DomainUID(/*[in]*/ BSTR newVal);
      *Save the domain user ID to automate the login process for user.*
    (c)  get_DomainPasswords(/*[out, retval]*/ BSTR *pVal);
    (d)  put_DomainPasswords(/*[in]*/ BSTR newVal);
      Save the domain password for current user to automate the login process for user.
  (3)  Web page
    (a)  RemovePage(BSTR key);
    (b)  ClearPages();
    (c)  GetPageData(long index, BSTR * key , BSTR * val);
    (d)  get_Page(BSTR key, /*[out, retval]*/ BSTR *pVal);
    (e)  put_Page(BSTR key, /*[in]*/ BSTR newVal);
    (f)  PageCount(long * count);
    (g)  PageItem(long , BSTR *);
    (h)  get_EnumPageDataObject(/*[out, retval]*/ IDispatch* *pVal);
    (i)  put_EnumPageDataObject(/*[in]*/ IDispatch* newVal);
  (4)  Domain specific attributes
    (a)  get_FormValue(BSTR key, /*[out, retval]*/ BSTR *pVal);
      *This method gets domain specific data (attribute), a more appropriate name for this method could be get_Value or get_DomainAttributes*
    (b)  put_FormValue(BSTR key, /*[in]*/ BSTR newVal);
      *This method saves domain specific data (attribute), a more appropriate name for this method could be put_Value or put_DomainAttribute.*
    (c)  GetData(long index, BSTR * key, BSTR * val);

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*Similar to get_FormValue, but it retrieve domain attributes from index rather than the key.*

     (d) RemoveFormValue(BSTR key);
        *Remove attribute by key.*
     (e) KeyValueCount(long *);
        *Total counts of domain attributes.*

  (5)    Obsolete functions
     (a) get_hasUserData(/*[out, retval]*/ VARIANT_BOOL *pVal);
     (b) put_hasUserData(/*[in]*/ VARIANT_BOOL newVal);
     (c) AddScript(BSTR , BSTR);
     (d) GetScript(BSTR , BSTR *);

  (6)    Usage (last accessed time)
     (a) get_Usage(/*[out, retval]*/ long *pVal);
     (b) put_Usage(/*[in]*/ long newVal);
        *Record the last time this domain was accessed. CeBDomainDataObjectCollection::Add will use this value to calculate the ten most recently accessed domain and delete the rest.*

  (7)    Domain scripts
     This group of methods saves and retrieves entire scripts by script name.
     (a) GetDomainScript(BSTR , BSTR *);
     (b) AddDomainScript(BSTR , BSTR);
     (c) ClearDomainScripts();

  (8)    Miscellaneous Methods
     (a) get_Valid(/*[out, retval]*/ VARIANT_BOOL *pVal);
     (b) put_Valid(/*[in]*/ VARIANT_BOOL newVal);
     (c) ClearAll();
     (d) Clear();

3. IeBEnumPageDataObject (CeBEnumPageDataObject)
This object keeps collection of page data and a map of key value pairs.[4]
4. IeBPageDataObject (CeBEnumPageDataObject)
5. IeBFrameDataObject (CeBFrameDataObject)
6. IeBFormDataObject (CeBFormDataObject)
This object contains map of key value pairs that represents the form element name and value.

**B.   Connection Manager**
  1. IeBConnect
  2. IeBConnectUI

**C.   Tracker (IeBDomainTracker)**
The tracker tracks the browser window to determine the location (url) of the user, it also build a list of services (IeBService) in CeBDomainTracker::EnumServices. After that, whenever tracker receive an event from WebBrowser control, it enumerate through all the services and call corresponding event handling functions in each services.
  1. Attributes

---

[4] . Page 4, BizRate.com Invention and Copyright Disclosure        EXHIBIT 5 - page 14 of 25

a)    ServiceList m_services;

b)    CComPtr<IUnknown> m_topFrame;
   *Get the value from CeBDomainTracker::NavigateComplete2. In CeBDomainTracker::BeforeNavigate2, if the value is not NULL, initialize it.*

c)    Long m_pagecomplete;
   Set to 1 in CeBDomainTracker::DownloadComplete,

| _bstr_t | EBoodleHome |
|---------|-------------|
| BOOL | m_downloading |
| BOOL | m_pause |
| BOOL | m_basketsent |
| DWORD | m_htimer |
| HWND | m_viewHWND |
| long | m_pagecomplete |
| *The value set to False at CeBDomainDataMgr::OnBeforeNavigate and set to pageDownloaded in CeBDomainDataMgr::OnDocComplete. So each time m_pagecomplete is assigned to 1 in CeBDomainTracker::DownloadComplete since DownloadComplete event comes before DocumentComplete* | |

2. Methods

   a)    SetBrowserObject(IDispatch *pIDisp )

   b)    Start()

   c)    Advise()

   d)    EnumServices()

   e)    Stop()

   f)    ManageConnection(enum eBTrackerConnectType eConnectType)

   g)    BeforeNavigate2( IDispatch* pDisp,VARIANT * URL, VARIANT * Flags, VARIANT * TargetFrameName, VARIANT * PostData, VARIANT * Headers,VARIANT_BOOL * Cancel)
   *This function receives URL from caller, then call ParseDomain to get the sitename, and finally enumerate through all services and call their OnBeforeNavigate with both URL and sitename.*

   h)    BeforeNavigate2( IDispatch* pDisp,VARIANT * URL, VARIANT * Flags, VARIANT * TargetFrameName, VARIANT * PostData, VARIANT * Headers,VARIANT_BOOL * Cancel)
   *(1)    From "wb->get_Type(&typ);", the name of document type (Microsoft HTML Document 5.0) is retrieved but never used. Why is it here?*
   *(2)    If both m_pagecomplete and m_topFrame have valid values (another navigation has started), Initialize both of then.*
   *(3)    Call ParseDomain to get site name, then pass the site name to each service's CeBDomainDataMgr::OnBeforeNavigate.*

   i)    DocumentComplete(IDispatch * pDisp, VARIANT * Url)
   *(1)    This function detects the last DocumentComplete event (if it is a multiple-frame document), if it is the last, it set m_pagecomplete to 1 and pass this value to each service's CeBDomainDataMgr::OnDocumentComplete.*
   *(2)    It parse the URL by calling ParseDomain, after receiving site name, this function pass the site name to each service's CeBDomainDataMgr::OnDocumentComplete.*

   j)    DownloadBegin()
   *This function will call each eBoodle service's OnDownloadBegin* EXHIBIT 5 - page 15 of 25

k)    CommandStateChange(long command, VARIANT_BOOL enable)
      *This function keeps track of actions relate to forward and backward*
      *buttons.*
l)    NavigateComplete2(IDispatch *pDisp, VARIANT *Url)
m)    ExecCommand(BSTR name, BSTR value)
n)    Login()
      *This function is called by CeBoodleView::OnLogin indirectly, and then it*
      *enumerates through and calls each service's eBLogin member function.*
o)    Logout(int lo)
p)    Reload()

## D.    Services

CeBDomainDataMgr implements both IeBService and IeBDomainDataMgr.

1. IeBService
   a)    Methods
         (1)    OnBeforeNavigate([in] IDispatch* pDisp, [in] VARIANT* URL, [in] BSTR
                domain);
         (2)    OnNavigateComplete([in] IDispatch* pDisp, [in] VARIANT* URL, [in]
                BSTR domain);
         (3)    OnDocComplete([in] IDispatch* pDisp, [in] VARIANT* URL, [in] BSTR
                domain, [in] long pageDownloaded);
                (a) *This function receives site name and last frame indicator from*
                    *CeBDomainTracker::DocumentComplete.*
         (4)    ExecCommand(BSTR, BSTR , IDispatch *);
         (5)    eBLogin();
                (a) *This function check if the current login domain is eBoodle.com first, if it is*
                    *the current domain, it set m_currentdomain by current URL.*
                (b) Then it calls CeBDomainDataMgr::Login.
                (c) This function calls CeBComModule::put_UserLogged and set
                    CeBComModule::m_userlogged to TRUE.
         (6)    eBLogout([in] int lo);
                *This function calls CeBComModule::put_UserLogged and set*
                *CeBComModule::m_userlogged to FALSE.*
         (7)    Shutdown();
         (8)    OnDownloadBegin();
         (9)    OnDownloadComplete();
         (10)   Reload();
         (11)   get_BrowseMode(/*[out, retval]*/ VARIANT_BOOL *pVal);
         (12)   put_BrowseMode(/*[in]*/ VARIANT_BOOL newVal);
                *This function is called by*
                *CeBDomainTracker::CommandStateChange to keep track of*
                *command changes - forward and backward.*

2. IeBDomainDataMgr
   a)    Methods
         (1)    IsBeginCheckout([in] BSTR url);
         (2)    IsOrderConfirm([in] BSTR url, VARIANT* retVal , VARIANT* action);
         (3)    UpdateDoc([in] BSTR , [in] IDispatch *);
         (4)    RequestData(BSTR);
         (5)    Login(BSTR domain, LPDISPATCH * domainData);
         (6)    EnumData([out, retval] LPDISPATCH *pVal);
         (7)    SendDocUpdates([in] IDispatch *, [in] BSTR url );
                (a) *Ckeck if user has logon already, if not, returns. If user has logged*

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*in, then continues.*

    (8)       SendDoc(BSTR domain, IDispatch* pages, VARIANT* event);

    (9)       SendBasket(IDispatch * pBrowser, BSTR domain);

3. CeBDomainDataMgr
    a)    Attributes

```
HWND            m_ParenthWnd;
BOOL            m_requestSentForData;
BOOL            m_requestSentForScript;
_bstr_t         m_currentDomain;
_bstr_t         EBoodleHome;
Hardcoded to "eboodle".
_bstr_t         m_cashbackDomain;
_bstr_t         m_basketUrl;
CComBSTR        m_homeUrl;
CComBSTR        m_homeSUrl;
CComBSTR        m_shopBaseUrl;
CComBSTR        m_shopSecureBaseUrl;
CComBSTR        m_transactBaseUrl;
CComBSTR        m_logFail;
CComBSTR        m_loginPage;
CComBSTR        m_walletPage;
CComBSTR        m_showTransaction;
CComBSTR        m_lastURL;
HANDLE          m_hEventRequest;
HANDLE          m_hloginRequest;
BOOL            m_validsequence;
BOOL            m_bmode;
BOOL            m_pagecomplete;
BOOL            m_AttemptLoginFail ;
Long            m_mainBrwsrHWND;
Bool            m_newuidPasswds ;
BOOL            m_firstCBDomainRequest;


CComPtr<IeBDomainDataObjectCollection> m_domainCollection ;

CComPtr<IeBDomainDataObject>           m_domainData;
This object is created in CeBDomainDataMgr::FinalConstruct or
CeBDomainDataMgr::_AddScript
CComPtr<IeBDomainDataObject>           m_hiddenKeyVals;

CComPtr<IeBDomainDataObject>           m_listNewVars;

CComPtr<IeBDomainDataObject>           m_listoldVars;

CComPtr<IeBComModule>                  m_ebModule;
```

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1. This object is created in CeBDomainDataMgr::FinalConstruct
   to store user related information for all browser windows in
   the same process.

```
CComPtr<IeBConnect>                        m_webConnection;

CComPtr<IeBConnect>                        m_DomainDataConnection;

CComPtr<IeBConnect>                        m_confirmScriptConnection;

CComPtr<IWebBrowser2>                      m_viewBrowser;

CComPtr<IeBGlobalInterfaceHolder>          m_pGIH;

eBFormFill::FormFillStatus                 m_ff;
```

　　b)　Methods
　　　　(1)　IsHome(BSTR domain)
　　　　　　　*This inline function verifies if the current domain is "eboodle".*
　　　　(2)　SetCashBackMode(_bstr_t& cashbackSite)
　　　　　　(a)　eb_cbDomain:
　　　　　　(b)　eb_new: fresh copy or not.
　　　　　　(c)　eb_domain:
　　　　　　(d)　eb_vscore: bizrate merchant rating.
　　　　　　(e)　eb_biz_vid: bizrate vendor ID.
　　　　　　(f)　eb_biz_vgrp: bizrate merchant group.
　　　　　　(g)　eb_trx_sent: text sent to the server.
　　　　(3)　UpdateLoginStatus(IDispatch *pDisp)
　　　　(4)　AttemptLogin( _bstr_t& domain)
　　　　　　　*This function get the "eb_userid" cookie from server and set cookie
　　　　　　　value through CeBComModule::put_CurrentUser, which can be
　　　　　　　shared for all browser windows in a internet explorer process.*

　4. eBNSComm – transaction tracking service
　5. eBNSFormFill – Form filling service

**E.　Drag and Drop**
　1. CeBNSDataSource
　2. CeBNSDropSource
F.　Netscape related Interfaces and Classes
　1. CeBNSBrowser
　2. CeBNSDataSource
　3. CeBNSDropSource
　4. eBNSComm
　5. eBNSFormFill

G.　Miscellaneous Interfaces and Classes
　1. IeBComModule

The purpose of this class is to store information common to all instances of browsers in a process, such as current user, user logged, and viewer handle.

    a)     Attributes

        CComBSTR            M_currentUser;

        This is the user ID of current user, the value is set by CeBComModule::put_CurrentUser, and the value is stored with the cookie string "eb_userid".

        HandleList             m_eBViewhWnds;

        BOOL                   m_userlogged;

        The value is set in the CeBDomainDataMgr class, the following three functions

           1. CeBDomainDataMgr::eBLogin() set its value to TRUE.
           2. CeBDomainDataMgr::eBLogout set its value to FALSE.
           3. CeBDomainDataMgr::UpdateLoginStatus set its value if m_ebModule is valid.

        CRITICAL_SECTION    m_csObjMap;

        LONG                   m_cbCount;

        LONG                   m_currentViewHandle;

2. IeBGlobalInterfaceHolder

3. IeBLogin

4. IebMainBrowserProxy

    a)     IOleObjectWithSite Methods

          (1)        SetSite(IUnknown *pUnkSite);

    b)     DWebBrowserEvents2 Methods [5]

          (1)        Recalc()

          (2)        StatusTextChange(BSTR Text)
                 *Statusbar text changed.*

          (3)        ProgressChange(long Progress, long ProgressMax)
                 *Fired when download progress is updated.*

          (4)        CommandStateChange(long Command, VARIANT_BOOL Enable)
                 *The enabled state of a command changed.*

          (5)        DownloadBegin()
                 *Download of a page started.*

          (6)        DownloadComplete()
                 *Download of page complete.*

          (7)        TitleChange(BSTR Text)
                 *Document title changed.*

          (8)        PropertyChange(BSTR szProperty)
                 *Fired when the PutProperty method has been called.*

          (9)        BeforeNavigate2(IDispatch* pDisp, VARIANT* URL, VARIANT* Flags, VARIANT* TargetFrameName, VARIANT* PostData, VARIANT* Headers, VARIANT_BOOL* Cancel)
                 *Fired before navigate occurs in the given WebBrowser (window or frameset element). The processing of this navigation may be modified.*

          (10)      NewWindow2(IDispatch** ppDisp, VARIANT_BOOL* Cancel)
                 *A new, hidden, non-navigated WebBrowser window is needed.*

          (11)      NavigateComplete2(IDispatch* pDisp, VARIANT* URL)

---

[5] . EXDISP.IDL in Visual Studio 98                          EXHIBIT 5 - page 19 of 25

> *Fired when the document being navigated to becomes visible and enters the navigation stack.*
>
> (12)   DocumentComplete(IDispatch* pDisp, VARIANT* URL)
> *Fired when the document being navigated to reaches ReadyState_Complete.*
>
> (13)   OnQuit()
> *Fired when application is quiting.*
>
> (14)   OnVisible(VARIANT_BOOL Visible)
> *Fired when the window should be shown/hidden.*
>
> (15)   OnToolBar(VARIANT_BOOL ToolBar)
> *Fired when the toolbar should be shown/hidden.*
>
> (16)   OnMenuBar(VARIANT_BOOL MenuBar)
> *Fired when the menubar should be shown/hidden.*
>
> (17)   OnStatusBar(VARIANT_BOOL StatusBar)
> *Fired when the statusbar should be shown/hidden.*
>
> (18)   OnFullScreen(VARIANT_BOOL FullScreen)
> *Fired when fullscreen mode should be on/off.*
>
> (19)   OnTheaterMode(VARIANT_BOOL TheaterMode)
> *Fired when theater mode should be on/off·*

c)   IebMainBrowserProxy Methods
   (1)   Init(/*[in]*/ long)
   (2)   eBVersion( /*[out, retval]*/ BSTR* pVal)
   (3)   UnInstall(BSTR )
   (4)   GetRegState(BSTR svc ,BSTR, BSTR *)
   (5)   SetRegState(BSTR svc ,BSTR key, BSTR val)
   (6)   get_browser(/*[out, retval]*/ LPDISPATCH *pVal)
   (7)   put_browser(/*[in]*/ LPDISPATCH newVal)
   (8)   get_NSBrowser(/*[out, retval]*/ LPDISPATCH* pVal)
   (9)   put_NSBrowser(/*[in]*/LPDISPATCH newVal)
   (10)   get_TopMost(/*[out, retval]*/ short *pVal)
   (11)   put_TopMost(/*[in]*/ short newVal)
   (12)   eBSendMessage(long hwnd,int imsg, int param, BSTR msg)
   *Get the current view handle form the cookie and send the message.*
   (13)   eBVersion2(BSTR obj, BSTR * pVal)
   (14)   Canonicalize(VARIANT * bstring,VARIANT * ostring)
   *Convert data format.*
   (15)   Navigate2(VARIANT *, VARIANT *, VARIANT *, VARIANT *, VARIANT *)
   (16)   Page(BSTR * currentPage)
   (17)   FrameBrowser(long cookie, LPDISPATCH * browser)
   (18)   get_Advise(/*[out, retval]*/ short *pVal)
   (19)   put_Advise(/*[in]*/ short newVal)

5. IeBNSBrowser
6. CeBoodleView
   a)   IeBoodleViewUI Methods
      (1)   OnSearch([in]VARIANT Url);
      (2)   OnSelectCC(VARIANT);
      (3)   SendData(VARIANT *, VARIANT *, VARIANT *, VARIANT *, VARIANT *);
      (4)   OnLogin();
      (5)   OnSelectAddress(VARIANT);
      (6)   OnLogout([in] int lo);
      (7)   Initialize();
      (8)   Login();

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          (9)        CreateViewWindow(long \*pHViewWnd, long hParentWnd, RECT rect);

          (10)     MinimizeEB(int x, int y,int barStyle);

          (11)     Advise(DWORD dwBrowserCookie);

          (12)     SaveLoginInfo(BSTR username, BSTR password);

       b)   IeBoodleView Methods

          (1)       Window([out, retval]long\* phwnd)

    7. CeBToolbar

H.     Global constants, global variables, and Utilitiy Functions

    1. Global constants in eBconst.h.

| | |
|---|---|
| eb_PromptUser | L"promptUser"; |
| eb_DomainUID | L"eb_userid"; |
| eb_DomainPASSWORDS | L"eb_domainpasswds"; |
| eb_ConfirmOrderScriptID | L"eb_confirmURL"; |
| eb_ConfirmCheckOutID | L"eb_checkoutURL"; |
| eb_ConfirmOrderID | L"eb_confirm"; |
| eb_CancelOrderID | L"eb_cancel"; |
| eb_OneclickOrderID | L"eb_oneclick"; |
| eb_AttributeURL | L"eb_url"; |
| eb_AttribIdDomainData | L"eb_domaindata"; |
| eb_AttribIdLogin | L"eb_login"; |
| eb_AttribIdMultCC | L"eb_cc"; |
| eb_AttribMultCCIndex | L"eb_index"; |
| eb_AttribDomainAliases | L"eb_aliases"; |
| eb_AttribIdMultADDRS | L"eb_addr"; |
| eb_TransactionId | L"eb_transction"; |
| eb_FuncScriptId | L"eb_functions"; |
| eb_Headers | L"Content-Type:application/x-www-form-urlenc‹ |
| eb_Action | L"eb_action"; |
| eb_getCartURL | L"eb_getCartURL"; |
| eb_CartURL | L"eb_cartURL"; |
| eb_Ddpage | L"eb_ddpage"; |
| eb_UDDpage | L"eb_uddpage"; |
| EbGIHProgID | L"EBoodle.eBGlobalInterfaceHolder"; |
| EbCookie | L"cookie"; |
| eb_ToggleCashBackMode | L"eb_CashBackMode"; |
| eb_cbDomain | L"eb_cbdomain"; |
| EbViewHWND | L"eb_hview"; |
| eb_SetSatus | L"eb_status"; |
| eb_FF | L"eb_ff"; |
| eb_vscore | L"eb_vscore"; |
| eb_biz_vid | L"eb_biz_vid"; |
| *Vendor ID* | |
| eb_biz_vgrp | L"eb_biz_vgrp"; |

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```
Vendor group
eb_trx_sent                    L"eb_trx_sent";
eb_on                          L"on";
eb_pagedownloaded              L"eb_pd";
eb_AddrType                    L"eb_addrtype";
eb_Ship                        L"ship";
eb_Bill                        L"bill";
eb_eboodle                     L"eBoodle";
eb_homeDomain                  L"bizrate";
eb_AutoLaunch                  L"AutoLaunch";
eb_userScript                  L"u.jsp";
eb_functionsScript             L"functionsScript.htm";
eb_LoginPage                   L"su.send_login_page";
eb_PluginStoreuserPassword     L"su.storeUserPassword";
eb_AutoCompleteAsk             L"save_password.jsp";
eb_PromptSaveData              L"i_saveudata.jsp";
eb_SaveUserData                L"su.saveUserData";
eb_PluginStoreOrderPage        L"store_browser_event.pl";
eb_GetRewards                  L"su.getRewardsPage?uid=";
eb_PluginStoreBasketContent    L"";
eb_SessionLogout               L"eboodle_session.logout2";
eb_SessionLogoutAll            L"eboodle_session.logout";
```

2. ebComUtil.cpp
    a) BOOL EBAddDocument(CComBSTR& scriptname ,CComBSTR& domain,CComPtr<IWebBrowser2>& spBrowser , CComPtr<IeBDomainDataObject>& domainData)
    b) BOOL EBAddScript(CComBSTR& scriptname ,CComBSTR& domain,CComPtr<IWebBrowser2>& spBrowser , CComPtr<IeBDomainDataObject>& domainData)
    c) BOOL EBAddAllScript(CComBSTR& domain,CComPtr<IWebBrowser2>& spBrowser , CComPtr<IeBDomainDataObject>& domainData)
    d) BOOL EBAddKeyValData(CComBSTR& domain, CComPtr<IWebBrowser2>& spBrowser , CComPtr<IeBDomainDataObject>& domainData, CComVariant& retval , CComVariant& alias )
    e) BOOL EBExec( CComBSTR& scriptId, BSTR domain, CComBSTR& input, CComBSTR& inputVal, CComPtr<IWebBrowser2>& spBrowser , CComPtr<IeBDomainDataObject>& domainData, CComVariant& retval )
       Execute script

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f)     BOOL EBExec( CComBSTR& scriptId, BSTR domain, KeyValuePairs& keyvals , CComPtr<IWebBrowser2>& spBrowser , CComPtr<IeBDomainDataObject>& domainData, CComVariant& retval )

g)     BOOL EBExecDoc( CComBSTR& scriptId, BSTR domain, KeyValuePairs& keyvals , CComPtr<IeBDomainDataObject>& domainData, CComPtr<IHTMLDocument2>& pdoc , CComVariant& retval )

h)     BOOL EBExecAllDoc( CComBSTR& scriptId, BSTR domain, KeyValuePairs& keyvals , CComPtr<IHTMLDocument2>& pdoc , CComPtr<IeBDomainDataObject>& domainData, CComVariant& retval )

i)     BOOL EBAddKeyData(const wchar_t * key, IHTMLElement * baselem, CComPtr<IeBDomainDataObject>& domainData)

j)     HRESULT EBAddAttributes(IHTMLElement* baselem, CComPtr<IeBDomainDataObject>& domainData)

k)     HRESULT FindFormValue( IHTMLDocument2 * pHTMLDocument2, _bstr_t& searchkey , _bstr_t& newVal, BOOL& isPassword)

l)     HRESULT FindFormValueInFrames(IDispatch * pDispatch, _bstr_t& searchkey , _bstr_t& newVal, BOOL& isPassword)

m)     void ParseDomain(BSTR fullUrl, _bstr_t& indomain)
*This function receives a URL from the first parameter, parse the URL, and send the domain name back via the second parameter. For example, if the first parameter receives "http://www.bizrate.com/search/sub_cat_index.xpml?cat_id=2", then the second parameter pass "bizrate" back to the caller.*

n)     void GetDomain(wchar_t * FullHostDomain,wchar_t *& Domain)

o)     void BreakDomain(wchar_t * FullHostDomain,wchar_t *& Domain)

p)     BOOL MakeSafeArray( variant_t& varArray, const char* strData )

q)     BOOL MakeSafeArray( variant_t& varArray, const wchar_t * strData )

r)     int ReplaceString(wchar_t * src,_bstr_t& newKey ,wchar_t * replaceWhat ,wchar_t * replaceWith )

s)     int Trim(CComBSTR& str)

t)     void ebCannocalize(std::basic_string<wchar_t>& spage)

u)     DWORD CreateCookie( HWND h)

v)     DWORD CreateCookie( CComPtr<IWebBrowser2>& pwb)

w)     BOOL eBWaitWithMessageLoop( HANDLE hEvent)

x)     BOOL EBBasketUrl( CComBSTR& scriptId, BSTR domain, CComBSTR& input, CComPtr<IWebBrowser2>& spscriptBrowser , CComPtr<IWebBrowser2>& spBrowser ,CComPtr<IeBDomainDataObject>& domainData, CComVariant * url, CComVariant *retval)

y)     HRESULT GetHREF(IDispatch * pElement, REFIID riid, CComBSTR& href)

z)     HRESULT GetPage(IDispatch * pdisp, CComBSTR& page)

aa)    HRESULT SetPage(IDispatch * pdisp, CComBSTR& page)

bb)    HRESULT EBGetModuleName(BSTR object, CComBSTR &modulaname)

cc)    HRESULT EBGetCookie(IWebBrowser2* browser,BSTR cookieName , CComBSTR& value)

dd)    HRESULT EBSetCookie(IWebBrowser2* browser,BSTR cookieName , CComBSTR& value)

## V.    Scripts

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A.    bar_index.htm
    1. doinit()
      This function set registry values for the bar.

## VI.   Appendix

A.    Naming Conventions
    1. For member functions respond to event directly, prefix with underscore.
      Examples are _AddScript(), _CheckResults(), and _CheckAccount().

B.    Program Files

| NAME | Interface/class | Comment | |
|------|-----------------|---------|---|
| EBconst.h | N/A | Constants | |
| | | | |
| | | | |

C.    Registry Settings
    1. Default.inf and eboodleIE.inf are the files to load registry values.
    2. Keys and their values
      a)   [HKEY_LOCAL_MACHINE\SOFTWARE\eBoodle]

        eBLoginPage      `http://shakti.eboodle.com:8080/bizzybar/frame_shoppi`

        *Login page used by CeBDomainDataMgr::AttemptLogin.*

        eBLoginProcess `https://shakti.eboodle.com:444/bizzybar/bar_login_pr`

        *Login URL used by CeBoodleView::AutoLogin*

        eBLoginData      userid=@USERID@&passwd=@PASSWD@

        *Used by CeBoodleView::AutoLogin*

        eBLogout        `http://shakti.eboodle.com:8080logout.xpml`

        *Logout handling script*

        eBLogFail      `http://shakti.eboodle.com:8080/bizzybar/frame_login.`

        EBBar            `http://shakti.eboodle.com:8080/bizzybar/index.ht`

        EBHome           `http://shakti.eboodle.com:8080`

        EBSecHome        `https://shakti.eboodle.com:444`

        *Secure HTTP URL*

        EBTO              `http://shakti.eboodle.com:8080/bizzybar/timeout.`

        *Timeout handling script*

        EBTb              `http://shakti.eboodle.com:8080/bizzybar/bar_icor`

        *For the three states of eBoodle bar, this script handles the iconil*

        EBKA              `http://shakti.eboodle.com:8080/bizzybar/ka.xpml`

        EBHomeDomain     Eboodle

        *Current domain name*

        EBCodeName      Bizzybar

        AutoLaunch       TRUE

        EBTransTracking    N

        *Enable or disable transaction tracking*

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```
eBLearnUIDPassVars N
Enable or disable the automatic filling of user id and password.
Timeout          20
Miny             44
Maxy             44
```

b) [HKEY_LOCAL_MACHINE\SOFTWARE\eBoodle\eBsvcs]:

```
1    {F7D557E6-0964-11D3-A270-0060976E9E6A}
Class ID of EBoodle.eBDomainDataMgr.1
2    {B4F2B3CB-B891-11D3-95E1-0060976E9E6A}
```

c) [HKEY_LOCAL_MACHINE\SOFTWARE\eBoodle\Shop]

```
eBSHome    http://shakti.eboodle.com:8080/svcs/req/
EBSSHome   https://shakti.eboodle.com:444/svcs/req/
Secure HTTP URL
EBWpage    http://shakti.eboodle.com:8080/bizzybar/frame_fillform.ht
Obsolete
```

d) [HKEY_LOCAL_MACHINE\SOFTWARE\eBoodle\Transact]

```
EBTHome           http://shakti.eboodle.com:8080/svcf/
EBTShow           N
Enable or disable transaction tracking
RebateKW          |mid=,!!id=
Affiliate program ID for transaction tracking
```

D. Files
1. index.html
2. bar_index.htm
3. eboodle.js
4. eboodle2.js
5. vendor.htm

## VII. Glossary

1. Browser companion

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